

NDE-8512-R Fixed dome 2MP HDR 3-9mm PTRZ IP66 FLEXIDOME IP starlight 8000i



The FLEXIDOME IP starlight 8000i - 2MP performance line camera offers starlight performance and High Dynamic Range with 1080p resolution to provide crisp and highly detailed images even in extreme low-light situations.

The camera's remote commissioning functionality makes sure installation and commissioning can be done in very little time. Using a PC or a mobile device with the Bosch Project Assistant app, you can pan, tilt, roll and zoom (PTRZ) and point the camera to the required field of view with a single click - without ever having to touch the camera or lens.

Functions

Full Remote Commissioning

Installing a professional IP video surveillance camera has never been so easy. In fact, as an installer, you'll never want to go back to the old methods of installing cameras again. We've simplified the installation and commissioning stages to such a degree that they can be done in very little time.

With the FLEXIDOME IP starlight 8000i camera's remote commissioning functionality there's no need to go up and down ladders. Using a PC or a mobile device with the Bosch Project Assistant app, you can



- Motorized Pan, Tilt, Roll, and Zoom (PTRZ) to set the required field of view, without having to touch the camera or lens allows for remote configuration and commissioning
- Starlight technology provides highly detailed images in extreme low-light situations
- High Dynamic Range to see every detail in both bright and dark areas of the scene
- Built-in Intelligent Video Analytics with object detection to trigger alerts and quickly retrieve data with the highest levels of reliability
- Camera Trainer to train the camera to recognize user-specified target objects for both moving and non-moving objects

pan, tilt, roll and zoom (PTRZ) and point the camera to the required field of view with a single click without ever having to touch the camera or lens. Remote configuration and commissioning can also be done at a later stage once all cameras have been installed. Simply connect to the camera remotely via the network using the Bosch Project Assistant app, the camera's web interface, or the Bosch Configuration Manager.

Fast performance

The 60 frames per second mode provides for optimum performance in fast action scenes that makes sure no critical data is lost and video is captured with excellent detail.

Starlight performance

The latest sensor technology combined with the sophisticated image processing and noise suppression results in an exceptional sensitivity in color. The lowlight performance is so good that the camera continues to provide excellent color performance even with a minimum of ambient light.

High Dynamic Range

The high dynamic range mode is based on a multipleexposure process that captures more details in the highlights and in the shadows even in the same scene. The result is that you can easily distinguish objects and features, for example, faces with bright backlight. The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis according to IEC 62676 Part 5.

Scene modes

Nine configurable modes are provided with the best settings for a variety of applications. In one click fully optimized image settings can be selected to suit the conditions. Different scene modes can be selected for different situations such as traffic or retail environments.

Intelligent streaming

Smart encoding capabilities, together with Intelligent Dynamic Noise Reduction technology and analytics, reduce the bandwidth consumption to extremely low levels. Only relevant information in the scene, like motion, or objects found with the analytics, need to be encoded.

The camera is capable of quad streaming which allows the camera to deliver independent, configurable streams for live viewing, recording, or remote monitoring via constrained bandwidths. Each of these streams can be adapted independently to deliver high quality video, perfectly tailored to

purpose, while reducing bit rate by up to 90% compared to a standard camera.

H.265 high-efficiency video encoding

The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. The camera is capable of delivering high-quality and high-resolution video with very low network load. With a doubling of encoding efficiency, H.265 is the compression standard of choice for IP video surveillance systems.

Bitrate optimized profile

The average bitrate for the bitrate optimized profile using H.265 encoding in kbps for different frame rates can be found in the table provided below.

FPS at 2.1MP	Low activity	Medium activity	High activity
60	836	1261	2753
30	504	753	1647
25	441	661	1440
15	306	461	992
10	229	347	740
5	140	214	450

FPS at 2.1MP	Low activity	Medium activity	High activity
3	97	150	313
1	45	70	144

(i) Notice

Actual bitrate values may vary depending on scene complexity/activity and picture settings.

Recording and storage management

Recording management can be controlled by the Bosch Video Recording Manager application, or the camera can use local storage and iSCSI targets directly without any recording software. Local storage can be used for recording "at the edge" or for Automatic Network Replenishment (ANR) technology to improve the overall recording reliability. Pre-alarm recording in RAM reduces bandwidth consumption on the network and extends the effective life of the memory card.

Advanced edge recording

Advanced edge recording provides the most reliable storage solution possible due to the combination of the following functionalities:

- Dual SD cards that can be set up as either:
 - Mirrored, for redundant storage
 - Failover, for extended service intervals
 - Extended, for maximum retention time
- Industrial SD card support allows for extreme lifetime
- Health monitoring of industrial SD cards provide early service indications

Intelligent Video Analytics on the edge

The camera includes the latest release of the Intelligent Video Analytics application from Bosch. Specifically designed for the most demanding environments. It delivers the highest levels of accuracy for mission-critical applications such as perimeter protection of airports, critical infrastructures and government buildings, border patrol, ship tracking and traffic monitoring (e.g. wrong-way detection, traffic counts, monitoring roadsides for parked cars).

Intelligent Video Analytics is extremely resistant to false triggers caused by challenging environments with snow, wind (moving trees), rain, hail, and water reflections. It is ideal for providing automatic object detection over large distances.

The set-up of Bosch's video analytics is also second to none, which is great news for installers. Should your customer decide to use Intelligent Video Analytics, configuration and calibration couldn't be easier. Simply enter the height of the camera and the rest of the calibration is carried out by the video analytics itself based on information provided by the camera's built-in gyro sensor.

Camera Trainer

Based on examples of target objects and non-target objects, the Camera Trainer program uses machine learning to allow the user to define objects of interest and generate detectors for them. In contrast to the moving objects that the Intelligent Video Analytics application detects, the Camera Trainer program detects both moving and non-moving objects and classifies them immediately. Using Configuration Manager, you can configure the Camera Trainer program using both live video as well as recordings available through the respective camera. The resulting detectors can be downloaded and uploaded for distribution to other cameras.

A free of charge license is required to activate the Camera Trainer program.

DORI coverage

DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The maximum distance at which a camera/lens combination can meet these criteria is shown below:

2 MP Camera with 3 mm - 9 mm lens or 10 mm - 23 mm lens

DORI	DORI definition	Distance 3 mm / 9 mm	Distance 10 mm / 23 mm	Horizontal width
Detect	25 px/m 8 px/ft	24 m / 115 m 74 ft / 359 ft	134 m / 304 m 419 ft / 950 ft	77 m 240 ft
Observe	63 px/m 19 px/ft	9 m / 46 m 31 ft / 151 ft	53 m / 121 m 176 ft / 400 ft	31 m 101 ft
Recognize	125 px/m 38 px/ft	5 m / 23 m 16 ft / 76 ft	27 m / 61 m 88 ft / 200 ft	15 m 51 ft
Identify	250 px/m 76 px/ft	2 m / 12 m 8 ft / 38 ft	13 m / 30 m 44 ft / 100 ft	8 m 25 ft

Data security

Special measures ensure the highest level of security for device access and data transport. On initial setup, the camera is only accessible over secure channels and enforces a password. Web browser and viewing client access can be protected using HTTPS or other secure protocols that support state-of-the-art TLS 1.2 with updated cipher suites including AES encryption with 256 bit keys. No software can be installed in the camera, and only authenticated firmware can be uploaded. A three-level password protection with security recommendations allows users to customize device access. Network and device access can be protected using 802.1x network authentication with EAP/TLS. Superior protection from malicious attacks is guaranteed by the Embedded Login Firewall, on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support.

The advanced certificate handling offers:

- Self-signed unique certificates automatically created when required
- · Client and server certificates for authentication
- · Client certificates for proof of authenticity
- · Certificates with encrypted private keys

System integration and ONVIF conformance

The camera conforms to the ONVIF Profile S, ONVIF Profile G, ONVIF Profile M, and ONVIF Profile T specifications. For H.265 configuration, the camera supports Media Service 2, which is part of ONVIF Profile T. Compliance with these standards guarantees interoperability between network video products regardless of manufacturer.

Third-party integrators can easily access the internal feature set of the camera for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

Universal accessories

A full line of universal accessories are available that allow a consistent design across different platforms and a wide range of installation possibilities. Several dedicated accessories are available that seamlessly fit to the camera and expand the different installation options over previous generations. Available options include: a paintable cover, an oncamera weather protector, a clear or tinted replacement bubble, in-ceiling mounting kits, a surveillance cabinet with power and fiber optic options and different mounting options.

Regulatory information

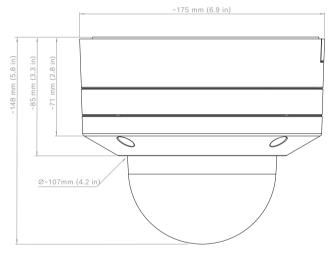
Standards	Туре
Emission	EN 301 489-1, EN 50121-4 (EN 55016-2-1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6), CFR 47 FCC, part 15, Class B, AS/NZS CISPR 32
Immunity	EN 301 489-1, EN 50130-4 (EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6), EN 50121-4 (EN 55016-2-1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6)
Environmental	EN 50130-5 Class IVA (EN 60068-2-2, EN 60068-2-5, EN 60068-2-6, EN 60068-2-18, EN 60068-2-27, EN 60068-2-30, EN 60068-2-42, EN 60068-2-52, EN 60068-2-75, EN 60068-2-78, EN 60529), UL 2043 when combined with NDA-8001-PLEN, Nema TS 2 Section 2

Standards	Туре
Safety	EN 62368-1, EN 60950-22, UL 62368-1, UL 60950-22, CSA C22.2 No. 62368-1-14, CAN/CSA-C22.2 No. 60950-22:07
Image performance	IEC 62676-5
HD	SMPTE 296M-2001 (Resolution: 1280x720)
	SMPTE 274M-2008 (Resolution: 1920x1080)
Color representation	ITU-R BT.709-6
ONVIF conformance	EN 50132-5-2, EN 62676-2
Impact protection	EN 62262 (IK10)
Water/dust protection	EN 60529 (IP66), ISO 20653 (IP6K9K), UL50E (Type 4X), UL 60950-22
Environment	2011/65/EU RoHS (EN 50581 and EN IEC 63000), 1999/45/EC and 1907/2006 REACH, 2012/19/EU WEEE, 94/62/EC Packaging
Marks	CE, cULus, WEEE, RCM, China RoHS, Cmim, UKCA
Region Regulatory compliance/quality marks	

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Great Britain	UKCA	FLEXIDOME IP startlight 8000i
Europe	CE	FLEXIDOME IP starlight 8000i

Installation/configuration notes

Dimensions



Parts included

Quantity	Component
1	FLEXIDOME IP 8000i camera
1	T-20 security Torx bit
1	Quick installation guide
1	Safety information

Quantity	Component
2	Rubber grommet for the Ethernet cable
1	Network patch cable 50 cm
1	10-pin I/O connector
1	2-pin power connector
1	Cable conduit for side entry
1	Washer for cable conduit
1	Adapter plate for cable conduit (Ø 3/4" / M25)
1	Adapter plate for cable conduit (Ø 1/2" / M20)
3	Identification label

Technical specifications

Electrical

PoE input	PoE IEEE 802.3af / 802.3at Type 1, Class 3; PoE and auxiliary power can be connected simultaneously for redundant operation
Input voltage (VAC)	24 VAC ±10%
Input voltage (VDC)	12 VDC - 26 VDC ±10%
Power consumption (W)	PoE: 7 W/12.95 W; 24 VAC: 7.1 W-12 VA/ 13 W-25 VA; 12-26 VDC: 7.5 W/16 W

Sensor

Sensor type	1/2.8 inch CMOS
Effective pixels (H x V px)	1920 px x 1080 px 2.9 µm pixels
Effective pixel (MP)	2.1 MP (approx.)

Starlight sensitivity (3 to 9 mm lens)

Measured according to IEC 62676 Part 5 (1/25, F1.2)

Color	0.007 lx
Mono	0.0011 lx
Dynamic range	
Dynamic range	
Dynamic range (WDR)	HDR 146 dB
Measured according to IEC 62676 Part 5	108 dB WDR

Optical	
Lens focal length (mm)	3 mm – 9 mm (IR corrected)
Lens aperture (/F)	1.2 /F – 2.3 /F
Zoom/focus control	Motorized zoom/focus
Iris control	P-iris
Field of View wide (°)	117° – 59° (HxV)
Field of View tele (°)	37° – 21° (HxV)
Firmware	
Common Product Platform	CPP7.3
Video streaming	
Video compression	H.265, H.264, M-JPEG
Sensor modes	25 fps, HDR, 1920 x 1080 (2MP); 30 fps, HDR, 1920 x 1080 (2 MP); 50 fps, 1920 x 1080 (2 MP); 60 fps, 1920 x 1080 (2 MP)
Number of encoder output streams	Multiple configurable streams in H.264, H.265 and M-JPEG, Configurable framerate and bandwidth; Region of Interest (ROI); Bosch Intelligent Streaming
Camera latency	67 ms (2 MP, 60 fps)
GOP structure	IP; IBP; IBBP
Frame rate (fps)	1 fps – 60 fps
Video stream signal-to-noise ratio (dB)	>55 dB
Resolution	1920 x 1080; 1280 x 1024; 1280 x 720; 854 x 480; 768 x 432; 640 x 480; 1536 x 864; 720 x 480; 768x432 (Rol)
Camera installation	

Camera installation

Mirror image	On/ Off
Rotate	0°/ 90° upright/ 180°/ 270° upright
Camera LED	Auto disable/ Enable/ Disable
Positioning	Mounting height; Coordinates
Camera view wizard	Motorized pan, tilt, roll, zoom, autofocus

Wireless commissioning	IEEE 802.11b/g/n
Video functions	
Adjustable picture settings	Contrast; Saturation; Brightness; Contrast enhancement; Sharpness
White balance (K)	2500 K – 10000 K
White balance modes	Basic; Standard; Dominant color; Manual mode; Hold mode; 4 automatic modes; Sodium lamp
ALC level	Adjustable
Saturation	Adjustable from peak to average
Shutter modes	Automatic Electronic Shutter (AES); Default shutter; Maximum shutter; Fixed shutter (1/25[30] to 1/15000) selectable
Day/night modes	Auto (adjustable switch points); Color; Monochrome
Camera functionality	Backlight compensation (BLC); Intelligent auto exposure; Pixel counter
Minimum illumination in color (lx)	0.0070 lx F1.2
Minimum illumination in monochrome (Ix)	0.0011 lx F1.2
WDR technology	HDR
Low light technology	starlight
Intelligent defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)
Number of privacy masks	8
Privacy masks color	Auto color
Scene modes with scheduler	Traffic; Night optimized; Vibrant; Low bitrate; Sports & gaming; Retail; Intelligent AE; Indoor; Outdoor; License plate recognition
Display stamping	Name; Logo; Alarm message; Time
Noise reduction	Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments

Video content analysis

Power output

Ethernet

Audio signal line in

Audio signal line out

Surge protection

video content analysis		
Additional functionalities	Face detection; Intelligent tracking; Tamper detection	
Analysis type	Intelligent Video Analytics; Camera trainer	
Configurations	Silent VCA; Profile 1; Profile 2; Scheduled; Event triggered	
Alarm triggers	Any object; Object in field; Line crossing; Enter / leave field; Loitering; Follow route; Idle / removed object; Counting; Occupancy; Crowd density estimation; Condition change; Similarity search; Flow / counter flow	
Object filters	Duration; Size; Aspect ratio; Speed; Direction; Color; Object classes (4)	
Tracking modes	Standard (2D) tracking; 3D tracking; 3D people tracking; Ship tracking; Museum mode	
Calibration	Automatic based on gyro sensor, focal length, and camera height	
Storage		
Internal RAM	5 s pre-alarm recording	
Memory card slot	Dual; SD card slots, up to 2TB	
Dual SD-card slot configurations	Mirror (redundant storage); Failover (extended service interval); Extend (maximum retention time); Automatic Network Replenishment	
Industrial SD cards	Extreme lifetime and health monitoring support that provides early service indication	
Inputs and outputs		

+12 VDC, max 50 mA

10 kOhm typical; 1 Vrms max

Ethernet: 1 kV, 2 kA to ground (8/20

1.5 kOhm typical; 1 Vrms

Shielded RJ45

µs pulse)

	end-of-line resistor
Alarm outputs	1 output, maximum: 30 VAC or +40 VDC, 0.5 A continuous, 10 VA
Audio	
Audio streaming	Full duplex; Half duplex
Compression and sampling rate	G.711 8 kHz; L16 16 kHz; AAC-LC 80kbps 16 kHz; AAC-LC 48kbps 16 kHz
Network	
Ethernet type	10/100BASE-T
Cloud services	Dropbox; Remote Portal
System integration	
Conformity	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; ONVIF Profile M
Protocols / standards	IPv4; IPv6; UDP; TCP; HTTP; HTTPS; RTP/RTCP; IGMP V2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, link local address); NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); 802.1x, EAP/TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication
Mechanical	
Dimension (Ø x H) (mm)	175 mm x 148 mm
Dimension (Ø x H) (in)	6.9 in x 5.7 in
Weight (kg)	2.20 kg
Weight (lb)	4.85 lb
Mounting type	Surface-mounted

Fiber optics (sold separately)

Capacity

Alarm inputs

The Fiber Optic Ethernet Media Converter kit (VG4-SFPSCKT) installed inside a Surveillance Cabinet (NDA-U-PAO, NDA-U-PA1 or NDA-U-PA2) provides the fiber optic interface to the mounted camera

2 supervised inputs, dry contact or voltage operated (5-40 VDC); 2.2 K

Color	White
Color in RAL	RAL 9003 Signal white
Pan range (°)	0° – 361° (motorized)
Tilt range (°)	-3° – 86° (motorized)
Roll range (°)	-95° – 95° (motorized)
Bubble material	Polycarbonate, clear with UV blocking anti-scratch coating
Material	Housing: Aluminum with dehumidifying membranes and waterproof connection area
Environmental	
Operating temperature (°C)	-50 °C – 60 °C for continuous operation; Up to 74°C according to NEMA TS 2-2003 (R2008), 2.1.5.1 using fig. 2.1 test profile
Operating temperature (°F)	-58 °F – 140 °F for continuous operation; Up to 165°F according to NEMA TS 2-2003 (R2008), 2.1.5.1 using fig. 2.1 test profile
Storage temperature (°C)	-30 °C − 70 °C
Storage temperature (°F)	-22 °F − 158 °F
Operating relative humidity, non- condensing (%)	5% - 93%
Operating relative humidity, condensing (%)	5% - 100%
Storage relative humidity (%)	Up to 98%
Impact protection (EN 50102)	IK10+ (50 joules) casing and dome
IP rating	IP66; IP6K9K; NEMA Type 4X

Ordering information

NDE-8512-R Fixed dome 2MP HDR 3-9mm PTRZ IP66 Fixed dome. NDAA compliant Order number NDE-8512-R | F.01U.404.121

Accessories

NDA-8000-PC Paintable cover, 4 pcs Paintable cover (4 pieces) for FLEXIDOME IP 8000i. Order number NDA-8000-PC | F.01U.324.966

NDA-8000-CBL Clear replacement bubble Clear replacement bubble. Order number NDA-8000-CBL | F.01U.324.934 NDA-8000-TBL Tinted Bubble Tinted bubble for FLEXIDOME IP 8000i. Order number NDA-8000-TBL | F.01U.324.973 NDA-8001-IC In-ceiling mount kit In-ceiling mount kit for FLEXIDOME IP 8000i with microphone support Order number NDA-8001-IC | F.01U.398.407 NDA-8001-PLEN Plenum-rated mount kit Plenum-rated in-ceiling mount kit for FLEXIDOME IP 8000i with microphone support Order number NDA-8001-PLEN | F.01U.398.393 NDA-8000-SP In-ceiling mount support kit Soft ceiling support for in-ceiling mount kit for FLEXIDOME IP 8000i. Order number NDA-8000-SP | F.01U.324.937 NDA-8000-WP On-camera weather protector On-camera weather protector for FLEXIDOME IP 8000i. Order number NDA-8000-WP | F.01U.324.929 NDA-8000-PIP Pendant interface plate, indoor Pendant interface plate for FLEXIDOME IP 8000i and FLEXIDOME IP panoramic 6000/7000 outdoor. Order number NDA-8000-PIP | F.01U.324.938 NDA-8000-PIPW Pendant interface plate, outdoor Pendant interface plate including weather protector for FLEXIDOME IP 8000i and FLEXIDOME IP panoramic 6000/7000 outdoor. Order number NDA-8000-PIPW | F.01U.324.967 NDA-U-WMT Pendant wall mount Universal wall mount for dome cameras, white Order number NDA-U-WMT | F.01U.324.939 NDA-U-PMT Pendant pipe mount, 12" (31cm) Universal pipe mount for dome cameras, 31 cm, white Order number NDA-U-PMT | F.01U.324.940 NDA-U-PMTS Pendant pipe mount, 4" (11 cm) Universal pendant pipe mount for dome cameras, 11 cm (4"), white Order number NDA-U-PMTS | F.01U.385.046 NDA-U-PMTE Pendant pipe extension, 20" (50cm) Extension for universal pipe mount, 50 cm, white Order number NDA-U-PMTE | F.01U.324.941 NDA-U-PSMB Pendant wall/ceiling mount SMB Surface mount box (SMB) for wall mount or pipe mount. Order number NDA-U-PSMB | F.01U.324.942 NDA-U-PA0 Surveillance cabinet 24VAC Surveillance cabinet, 24 VAC input, 24 VAC output, IP66 Order number NDA-U-PA0 | F.01U.324.947 NDA-U-PA1 Surveillance cabinet 120VAC Surveillance cabinet, 100 - 120 VAC 50/60 Hz input, 24 VAC output, IP66 Order number NDA-U-PA1 | F.01U.324.948 NDA-U-PA2 Surveillance cabinet 230VAC Surveillance cabinet, 230 VAC input, 24 VAC output, IP66 Order number NDA-U-PA2 | F.01U.324.949 NDA-U-PMAL Pole mount adapter large Universal pole mount adapter, white; large Order number NDA-U-PMAL | F.01U.324.944

NDA-U-PMAS Pole mount adapter small

Pole mount adapter small Universal pole mount adapter, white; small. Order number **NDA-U-PMAS | F.01U.324.943**

NDA-U-RMT Pendant parapet mount

Universal roof mount for dome cameras, white Order number NDA-U-RMT | F.01U.324.945

NDA-U-WMTG Pendant wall mount, gang box

Universal wall mount, compatible with gang box installation for fixed dome cameras only, white Order number **NDA-U-WMTG | F.01U.358.358**

NDA-U-PMTG Pendant pipe mount, gang box

Universal pipe mount, compatible with gang box installation for fixed dome cameras only, white Order number **NDA-U-PMTG | F.01U.358.359**

VG4-SFPSCKT Ethernet to SFP interface kit

Ethernet media converter video transmitter/data receiver fiber optic kit for AUTODOME cameras, for MIC-IP-PSU for MIC analog cameras and for the Surveillance cabinets (NDA-U-PA0, NDA-U-PA1 and NDA-U-PA2). Order number **VG4-SFPSCKT | F.01U.142.529**

SFP-2 Fiber module, multimode, 1310nm, 2LC SFP Fiber Optic Module, 2 km (1.2 miles), 2 LC connectors. Multi-mode 1310 mm Order number SFP-2 | F.01U.136.537

SFP-3 Fiber module, single-mode, 1310nm, 2LC SFP Fiber Optic Module, 20 km (12.4 miles), 2 LC

connectors. Single-mode 1310 nm Order number **SFP-3 | F.01U.136.538**

SFP-25 Fiber module, 1310/1550nm, 1SC

SFP Fiber Optic Module, 2 km (1.2 miles), 1 SC connector Multi-mode 1310/1550 nm Order number **SFP-25 | F.01U.136.541**

SFP-26 Fiber module, 1550/1310nm, 1SC

SFP Fiber Optic Module, 2 km (1.2 miles), 1 SC connector Multi-mode 1550/1310 nm Order number **SFP-26 | F.01U.136.542**

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