



→ TECHNICAL SPECIFICATION

Frequency band and range (GHz)	24GHz ISM band (24.05 – 24.25)
Duplex (Tx, Rx) offset	100 MHz, cross-polar
Channel bandwidth (MHz)	10 / 30
Modulation	QPSK / 16QAM / 32QAM / 64QAM
Capacity range	From 12 Mbps to 100 Mbps Ethernet Up to 2 E1/T1
Max. permitted radiated power	+20dBm (100mW) e.i.r.p.*
Configuration	1+0
Traffic Interfaces	100Mbps Fast Ethernet (RJ-45) / 2xE1 (RJ-45)
Tx Power tuning range (dBm)	-25 to -15
RSL Threshold at BER 10 ⁻⁶ , 30MHz, 32QAM, 100Mbps (dBm)	-77
Adaptive Coding and Modulation (ACM)	Hitless

→ PORTS

Antenna flange	Circular, 10.3mm
Ethernet with power over Ethernet cable	RJ-45 (data traffic, management port, power)
Balanced 2xE1/T1	1xRJ-45

→ MANAGEMENT FEATURES

Management Port	RJ-45 (in-band, optional VLAN tagging)
RSSI	LED on FODU WEB management
TCP/IP	WEB, SNMP, Telnet - local and remote
Monitoring	Via Telnet, WEB GUI, SAF NMS, SNMP Manager
Loopbacks	Yes, E1/T1, modem, RF loopback

→ ETHERNET

QoS	64 level DiffServ (DSCP) or 8 level 802.1p mapped in 4 prioritization queues with VLAN support
Max frame size	1916 bytes
Flow Control	Yes
802.1q VLAN support	Up to 15 concurrent traffic VLANs
Spanning Tree	802.1d-1998 STP

→ MECHANICAL & TECHNICAL

Stationary use	Ref. ETSI EN 300 019-2-4, class 4.1E; non weather-protected locations
Temperature range	-33° C to +55° C
Dimensions: HxWxD, mm / weight, kg	230x230x85 / 2
Input DC voltage	48 V DC ±10%
Max. power consumption	<15W

* SRD – Short Range Device

**CHANNEL PLAN**

Nr.	10MHz channels		30MHz channels	
	TX (MHz)	RX (MHz)	TX (MHz)	RX (MHz)
1	24055	24155		
2	24065	24165	24065	24165
3	24075	24175		
4	24085	24185		
5	24095	24195	24095	24195
6	24105	24205		
7	24115	24215		
8	24125	24225	24125	24225
9	24135	24235		
10	24145	24245		

**CAPACITY MODES****10MHz channel, 32QAM**

Eth. (Mbps)	2E1 (Mbps)	2T1 (Mbps)
27	4	-
28	-	3
31	-	-

10MHz channel, 64QAM

Eth. (Mbps)	2E1 (Mbps)	2T1 (Mbps)
37	4	-
38	-	3
41	-	-

30MHz channel, 32QAM

Eth. (Mbps)	2E1 (Mbps)	2T1 (Mbps)
100	4	-
100	-	3
100	-	-

**Go FreeMile™**

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in Europe

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