



## → TECHNICAL SPECIFICATION

<b>Frequency band and range</b>	24GHz (24.05 – 24.25) / 17GHz (17.1 – 17.3)
<b>Duplex (Tx, Rx) offset</b>	100 MHz, cross-polarization
<b>Channel bandwidth</b>	10 / 30 MHz
<b>Modulation</b>	QPSK / 16QAM / 32QAM / 64QAM
<b>Capacity range</b>	100 Mbps Eth / 2E1/T1
<b>Max. permitted radiated power</b>	+20dBm (100mW) e.i.r.p.*
<b>Configuration</b>	1+0
<b>Traffic Interfaces</b>	100Mbps FE (RJ-45) + 2xE1/T1 (RJ-45)
<b>Tx Power, dBm</b>	-25 to -15 (24GHz) / -25 to -12 (17GHz)
<b>RSL Threshold at BER 10<sup>-6</sup></b>	-77dBm (30MHz, 32QAM, 100Mbps)
<b>ACM (Adaptive Coding &amp; Modulation)</b>	Hitless

## → PORTS

<b>Antenna flange</b>	Circular, 10.3mm / 13.8mm
<b>Ethernet with power over Ethernet cable</b>	RJ-45 (data traffic, management port, power)
<b>Balanced 2xE1/T1, analogue RSSI</b>	1xRJ-45

## → MANAGEMENT FEATURES

<b>Management Port</b>	RJ-45 (in-band, optional VLAN tag.)
<b>RSSI</b>	LED on FODU, WEB management, analogue
<b>TCP/IP</b>	WEB, SNMP, Telnet - local & remote monitoring via Telnet, WEB GUI, SAF NMS, SNMP Manager
<b>Loopbacks</b>	Yes, E1, modem, RF loopback

## → ETHERNET

<b>Switch Type</b>	Managed Fast Ethernet Layer 2
<b>Max frame size</b>	1916 bytes
<b>MAC table</b>	1K entries; automatic learning and aging
<b>Packet buffer</b>	32KB; non-blocking store&forward
<b>Flow Control</b>	802.3x
<b>VLAN support</b>	802.1Q (up to 15 concurrent traffic VLANs)
<b>QoS</b>	64 level DiffServ (DSCP) or 8 level 802.1P mapped in 4 prioritization queues with VLAN support
<b>Spanning Tree Protocol</b>	802.1D-2004 RSTP

## → MECHANICAL & TECHNICAL

<b>Stationary use</b>	Ref. ETSI EN 300 019-2-4, class 4.1E, non weather-protected locations
<b>Temperature range</b>	-33°C to +55°C
<b>Dimensions: HxWxD, mm / weight, kg</b>	230 x 230 x 85 / 2
<b>Input DC voltage</b>	48 V DC ±10%
<b>Max. power consumption</b>	<15W

\* complies with SRD standard (Short Range Device)



**→ CHANNEL PLAN 24 / 17 GHz**

Nr.	10MHz channel		30MHz channel	
	Tx, Rx (MHz)	Rx, Tx (MHz)	Tx, Rx (MHz)	Rx, Tx (MHz)
1	24055/17105	24155/17205		
2	24065/17115	24165/17215	24065/17115	24165/17215
3	24075/17125	24175/17225		
4	24085/17135	24185/17235		
5	24095/17145	24195/17245	24095/17145	24195/17245
6	24105/17155	24205/17255		
7	24115/17165	24215/17265		
8	24125 /17175	24225/17275	24125/17175	24225/17275
9	24135/17185	24235/17285		
10	24145/17195	24245/17295		

**→ CAPACITY MODES**

Modulation	10MHz	30MHz
<b>QPSK**</b>	12Mbps Ethernet	40Mbps Ethernet
	8Mbps Ethernet+2E1	38Mbps Ethernet+2E1
	9Mbps Ethernet+2T1	39Mbps Ethernet+2T1
	25Mbps Ethernet	81Mbps Ethernet
<b>16QAM**</b>	21Mbps Ethernet+2E1	80Mbps Ethernet+2E1
	21Mbps Ethernet+2T1	81Mbps Ethernet+2T1
	31Mbps Ethernet	100Mbps Ethernet
<b>32QAM</b>	27Mbps Ethernet+2E1	100Mbps Ethernet+2E1
	28Mbps Ethernet+2T1	100Mbps Ethernet+2T1
	41Mbps Ethernet	---
<b>64QAM</b>	37Mbps Ethernet+2E1	---
	38Mbps Ethernet+2T1	---

\*\* ACM mode only



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