



FreeMile 17/24

Full-outdoor licence-free carrier-grade last mile radio providing 100Mbps Fast Ethernet



- Top quality solution for licence-free bands with carrier-grade quality radios: EMC protection, high quality manufacturing and testing
- Lowest latency among licence-free equipment for flawless VoIP and video-streaming
- 17&24GHz carrier-grade licence-free radio providing 100 Mbps full-duplex bandwidth
- Minimized interference risks with narrow-beam antennas and ACM/ATPC support
- User friendly web interface for easy set-up, installation and maintenance
- Two wayside E1/T1 for voice communication networks



SAF FreeMile FODU – a new generation licence-free 17/24GHz ISM band radio for Ethernet packet data and E1/T1 voice transmission. The new radio system combines excellent features traditionally associated with ISM radios – interference-free operation, high availability and carrier-grade full-duplex capacity with no cost of licensing and quick installation. SAF FreeMile radio also offers a user-friendly web browser based management interface and straightforward installation process to ensure trouble-free experience for any user.



FreeMile	17 GHz	24 GHz
Frequency range (GHz)	17.1 – 17.3 ERC 70-03 (100 MHz offset)	24.15 – 24.25 UK Ofcom IR2030 (70 MHz offset), 24.05 – 24.25 FCC Part 15.249 (100 MHz offset), 24.05 – 24.25 ERC 70-03 (100 MHz offset)
Tx power	-25 dBm to -12 dBm	-25 dBm to -5 dBm for FCC and IC -25 dBm to -15 dBm for SRD and UK
Connection to antenna	Circular 13.8 mm (0.54")	Circular 10.3 mm (0.41")
Channel Bandwidths	10 / 30 MHz	
Modulation	QPSK / 16QAM / 32QAM / 64QAM	
Capacity	100 Mbps Ethernet + 2x E1/T1	
Max. permitted radiated power	+20 dBm (100mW) EIRP* ETSI, +32.7 dBm EIRP* FCC, 0 dBm Tx power IC	
Management	SNMP traps, MIB, SNMP v1/v2c, Web GUI, Telnet, FTP/TFTP, Serial terminal	
Ethernet	RJ-45 PoE (data traffic, management, power)	
E1/T1	RJ-45 (2x E1/T1, RSSI)	
Ethernet switch	Managed Fast Ethernet Layer 2	
QoS	64 level DiffServ (DSCP) or 8 level 802.1p mapped in 4 prioritization queues with VLAN support	
VLAN support	802.1Q (up to 15 concurrent traffic VLANs)	
Spanning Tree	802.1D-2004 RSTP, 802.1Q-1998 STP	
Stationary use	Ref. ETSI EN 300 019-2-4, class 4.1E, non weather-protected locations, IP66	
Max. power consumption	<15W	

