



PMP 400 Subscriber Module (4.9 GHz)

Proven, reliable, cost effective wireless broadband. Municipalities, counties and local governments need reliable, high-quality broadband connectivity with a low investment cost. Cambium Networks delivers Point-to-Multipoint (PMP) systems that are field proven and provide reliable, cost-effective connectivity for data, voice and video applications. The licensed PMP 49400 is particularly adept at serving difficult to reach locations.

Cambium Networks provides exceptional wireless broadband connectivity solutions. With more than 3 million modules deployed in thousands of networks around the world, Cambium solutions are proven to provide cost effective, reliable data, voice and video connectivity.

SPECIFICATIONS

PRODUCT	
MODEL NUMBER	4940SM, 4940SMC
SPECTRUM	
CHANNEL SPACING	Configurable on 0.5 MHz increments
FREQUENCY RANGE	4940-4990 MHz
CHANNEL WIDTH	10 MHz
INTERFACE	
PHYSICAL LAYER	OFDM 256 FFT
MAC (MEDIA ACCESS CONTROL) LAYER	Cambium Proprietary
ETHERNET INTERFACE	10/100BaseT, half/full duplex, rate auto negotiated (802.3 compliant)
PROTOCOLS USED	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP, PPPoE
NETWORK MANAGEMENT	HTTP, Telnet, FTP, SNMPv2c (compatible with Prizm 3.2 or later and CNUT 3.1 and later)
PERFORMANCE	
ARQ	Yes
MODULATION LEVELS (ADAPTIVE)	1X: QPSK, 2X: 16-QAM, 3X: 64-QAM
LATENCY	5-7 msec roundtrip
FORWARD ERROR CORRECTION	3/4 Reed-Solomon block coding
GPS SYNCHRONIZATION	Yes
QUALITY OF SERVICE	DiffServ QoS
VLAN	802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID
MAX. AGGREGATE THROUGHPUT PER SECTOR (@10MHZ CHANNEL)	1X: 7 Mbps, 2X: 14 Mbps, 3X: 21Mbps
LINK BUDGET	
TRANSMIT POWER	-30 to +18 dBm (to EIRP limit by region) (1dBm interval)

SPECIFICATIONS

ANTENNA BEAM WIDTH	3dB antenna pattern: 15° azimuth, 15° elevation
ANTENNA GAIN	Integrated: 17 dBi Connectorized: Varies with antenna type: can operate with a selection of separately-purchased antennas; 50-ohm N-type (check local regulations prior to purchase)
MAXIMUM TRANSMIT POWER	18 dBm
EIRP	35 dBm (with integrated antenna)
TYPICAL LOS RANGE	up to 15 miles (24 km) at lowest modulation
SENSITIVITY (dBm typical)	1X: -89 dBm, 2X: -80 dBm, 3X: -71 dBm
PHYSICAL	
WIND LOADING	90 lbs.
MEAN TIME BETWEEN FAILURE	>10 years
ENVIRONMENTAL	IP55
TEMPERATURE	-40°C to +55°C (-40°F to +131°F)
WEIGHT	1.3 kg (2.8 lbs)
WIND SURVIVAL	118mi/hour (190km/hour)
DIMENSIONS (HxWxD)	34 x 21 x 11 cm (13.25" x 8.25" x 4.2")
MAXIMUM POWER CONSUMPTION	19W
INPUT VOLTAGE	24 to 59V
SECURITY	
ENCRYPTION	56-bit DES; 128-bit AES optional
CERTIFICATIONS	
FCC ID	ABZ89FT7631
INDUSTRY CANADA CERT	109W-4940