

Maverix DT

Dual Transceiver All Outdoor



Licensed Microwave Gigabit Radio

Gigabit Data Transport to Your Transmitter Site

Maverix DT is a dual-transceiver all outdoor, IP radio operating from 6 GHz to 42 GHz, modulations to 4096 QAM, and ultra wide bandwidth operation to 112 MHz ETSI and 160 MHz ANSI.

Maverix can achieve capacities up to 5.5 Gbps per radio without compression.

Features

Up to 5.5 Gbps data fulfills audio, data and voice link requirements for multiple station clusters.

Bidirectional for audio backhaul and data network capabilities.

Add a security camera to your site to protect valuable station assets.

A remote mirrored server at the transmitter site protects your business records and program content.

All outdoor topology saves valuable rack space in your TOC.

Web Browser User Interface and SNMP allow convenient remote monitoring and integration.

User Configurable makes it future resilient.

SPECIFICATIONS

FEATURES

Data Throughput Rate	160 kHz to 2.4 GHz – all worldwide STL bands
Configurations	2 x (1+0), 2+0 ACAP/ACCP, 4+0 ACAP/ACCP, 1+1, 2+2, 2+0 XPIC, 2 x (2+0) XPIC, 2x2 MIMO, 4x4 MIMO, 1+0 SD, 2+0 SD, 1+0 FD
Frequency Range	6 - 42 GHz
Modulation	QPSK to 4096QAM
Air Interface	Full Duplex FDD
Channel Bandwidths per Carrier	10-160 MHz ANSI and 7-112 MHz ETSI
Diplexer	Customer replaceable
Frequency flexibility	Different frequencies supported in single dual carrier radio (e.g. 6 GHz and 11 GHz)
Tx Power (diplexer output)	Up to 27dBm with Built-In Advanced Digital Pre-Distortion

INTERFACES

Ethernet	1 x 1G RJ45 (POE), 1 x 1G SFP or 1 x 1G RJ45 (POE), 1 x 1G SFP, 2 x 1/2.5G SFP (CPRI capable) or 1 x 1G RJ45 (POE), 1 x 1G SFP, 2 x 1/10G SFP+
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ETHERNET

Max Packet Size	16000 bytes (Jumbo Frame)
Ethernet Timing and Synchronization	SyncE (G.8261), IEEE 1588V2 Transparent, Boundary, and Ordinary Clock support
Ethernet Features	<ul style="list-style-type: none"> ▶ IPv6, IPv4 ▶ L2- 16K MAC Addresses ▶ 4096 VLAN (IEEE 802.1Q) with 1024 VLANs supported concurrently ▶ VLAN tag translation on ingress or egress ▶ Provider Bridging (IEEE 802.1ad, Q-in-Q) ▶ RSTP / MSTP ▶ Radio Link Aggregation
Ethernet Compression	Interface Gap and Pre-Amble Suppression, Header Compression, Payload Compression

QoS Packet Classification	<ul style="list-style-type: none"> ▶ DiffServ (RFC 2475) ▶ VLAN PRI (IEEE 802.1Q-2003) ▶ MAC PRI ▶ Port Priority ▶ Port Number, Protocol ▶ MPLS PRI
QoS Packet Scheduling	<ul style="list-style-type: none"> ▶ Port – Weighted Round Robin (WRR) ▶ Logic Port (cluster) – Weighted Fair Queuing (WFQ) or Strict Priority (SP) ▶ Priority Queue – WFQ, Strict Priority ▶ 8 priority queues per logical port/queue
QoS Congestion Avoidance	Two-rate / three color marking, WRED, Policing, Flow-Control (PAUSE packets, back-pressure)
QoS Traffic Shaping	Configurable
Protection	ITU-T G.8032 Ring
Encryption	AES256 (optional)
OAM	ITU-T Y.1731, IEEE 802.1ag, 802.3ah, Radius, Syslog
MEF Compliance	MEF9 Services Test Suite, MEF14 Traffic Management Test Suite
GPS	Advanced timing and MIMO operation (optional)

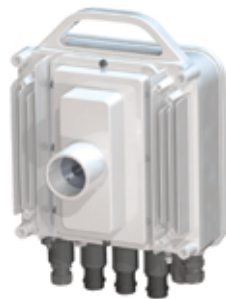
MECHANICAL AND ENVIRONMENTAL

Input Power Requirements	-48 VDC direct DC or PoE (-36 VDC to -60 VDC range)
Weight	9.2kg (20.3lbs) including internal OMT or coupler (2+0 configuration)
Size	23.9cm x 23.2cm x 12.5cm (9.42"x9.12"x4.94") not including antenna nose or handle
Operating Temperature	-33oC to +55oC (-27oF to +131oF) per ETS 300 019-2-4 Class 4M5
Humidity	5%-100%
Weather	IP67 / All Weather
Safety	IEC 60950-1, -22
Regulatory	US FCC Part 101, FCC Part 15B; ETSI EN 302 217

Specifications are subject to change without notice.

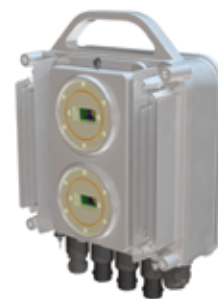


(FRONT VIEW)



Dual transceiver
Maverix DT optional built-in OMT or coupler to combine frequencies to a single antenna port.

(REAR VIEW ANTENNA CONNECTION OPTIONS)



Maverix DT is optionally available with two waveguide ports for space or diversity reception and XPIC.