

SWE

AETHERA

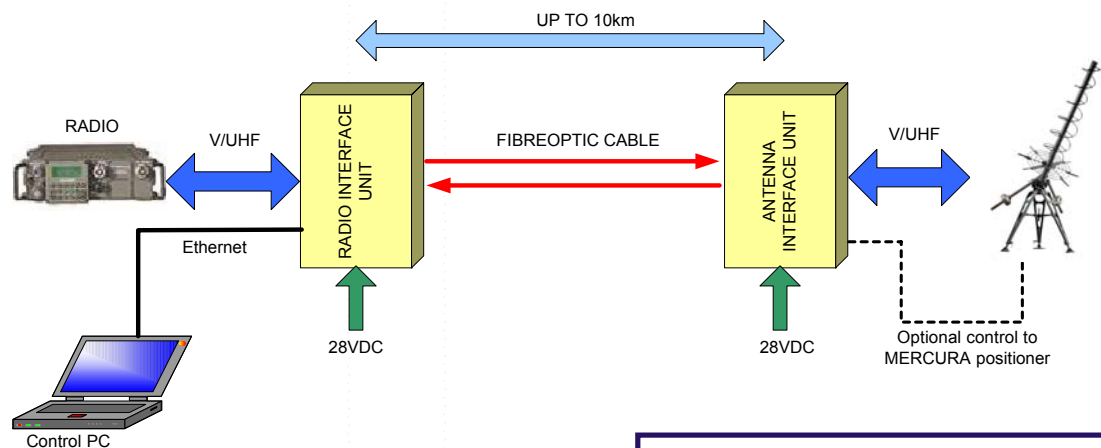
Integrated remote solution for tactical radios

Introducing the **AETHERA** fibre-optic system from SystemWare Europe. **AETHERA** is a fully integrated solution which enables the remote operation of UHF TACSAT and V/UHF line-of-site radio links.

It is not always possible, or desirable, to locate your tactical radio and antenna within the vicinity of each other, i.e. in a tall building or where there is a threat of attack from anti-radiation weapons.

AETHERA removes the need to compromise

The limitations of traditional copper coaxial cables mean that compromises usually have to be sought. With **AETHERA**, your antennas can be located hundreds, or even thousands of metres from your radios. When used in conjunction with **SystemWare Europe's MERCURA** steerable UHF TACSAT antenna, full remote operation can be achieved without the need to step outside.



AETHERA features

- Fully integrated – no need for separate amplifiers or filters.
- Simple two-box solution.
- Fully ruggedised for demanding tactical environments.
- Optimised for - UHF TACSAT and V/UHF line-of-site
- Full remote control of indoor and outdoor units from a single interface
- Can be used to control the **MERCURA** steerable UHF TACSAT antenna.
- Designed to operate with all common tactical V/UHF radios

AETHERA benefits

- Provides total flexibility for locating antennas and radios.
- Overcomes the distance limitations of lossy coaxial cables.
- Optical fibre provides greater immunity from EMP/EMI and lightning discharges.
- Fibre-optic cable simpler to route than coaxial – i.e. through buildings

SystemWare Europe

AETHERA

Specifications:

Output power range 2W to 50W (33dBm to 47dBm)
Frequency range 30 to 512MHz (selectable bands)
Harmonics -60dBc
Spurious -50dBc
Gain flatness \pm 1dB over 512MHz
VSWR 1.2:1
Input/output impedance 50 Ω
Maximum RF input 43dBm
Receive gain 45dB
Receive noise figure 5dB typ.
Operating temperature range - 20°C (-4°F) to 60°C (140°F) ambient
Operating humidity to 100% non-condensing
Operating altitude to 3,050m (10,000ft)

Radio interface unit:

RF Connector – coaxial N female
M&C connector – ruggedised RJ45 Ethernet
PTT connector – 62GB circular
Fibre-optic connector – ruggedised duplex hermaphroditic
Power supply – 28VDC. 115/230VAC, 50/60Hz with optional adapter
Power connectors – 62GB circular
Power consumption - 25W
Dimensions – 300 x 300 x 100mm
Weight - 2kg (4.4lb)

Antenna interface unit:

RF Connector – coaxial N female
Fibre-optic connector - ruggedised duplex hermaphroditic
Serial connector (for use with *MERCURA* antenna controller) – 62GB circular
Power supply – 28VDC. 115/230VAC, 50/60Hz with optional adapter
Power connectors – 62GB circular
Power consumption - 250W
Dimensions – 300 x 300 x 100mm
Weight - 5kg (11lb)

For further information, contact:

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Specifications subject to change without notice