PRODUCT SHEET

Product:	HMT 1000
Segment:	Defense
Division:	Security Communication

HMT 1000 HYBRID MAINS AND OPTICAL TRANSMISSION UNIT 1000 FOR REMOTE OPERATION OF C4I INFRASTRUCTURE

The Hybrid Mains and Optical Transmission Unit is an ancillary product to Ascom's palette of military communication equipment. It is a practical device that fulfils a special but common requirement. The HMT 1000 feeds isolated stations with signal and power through a single hybrid cable. It offers fast set-up, effectively replaces power generators and can be deployed by a single person.

Reduced emission as well as distantly placed transmitters give personnel an element of added protected in the combat arena.

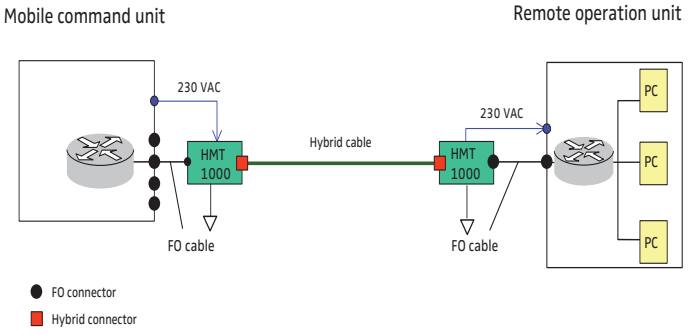
Compliant with standards for military grade electronics, the HTM 1000 is constructed of the same quality standards as the family of Ascom ruggedized openAccess Nodes. Used primarily in military environments, it is also suitable for international peace keeping and crisis management operations.

The HTM 1000 delivers power and provides for remote operation of semi-permanent transmitter stations or other C4I equipment. Simplified cabling allows a small signal core team to rapidly install - for example - ad-hoc surveillance stations, command centres, transmitter stations and check points even in difficult access sites such as snow and steep terrain.

The HTM 1000 hybrid cable consists of a power transmission line and four single-mode optical fibres bundled in a sturdy, yet compact and light construction; complete with integrated terminal hybrid connectors that let fast fail-safe mounting.

The unit boasts a high capacity data transmission rate for supporting remote data networks and is provisioned with safety monitoring including passive and active protection of the mains transmission line and provides galvanically isolated operation.

The watertight ultra rugged enclosure is hermetically sealed to withstand severe humidity, dust exposure and extreme temperatures. It is corrosion resistant and shock/vibration protected.



Typical HMT1000 configuration: Ad-hoc connection between a mobile command unit ('supply side') and a remote operation unit ('remote side').

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Technical Specification

Mechanical data	
Size (LxHxD)/mm	280x280x258
Weight	approx. 25.5 kg
Power supply	
Input voltage	230 VAC/50 Hz ± 10%
Output voltage	230 VAC/50 Hz ± 10% (regulated)
Max. output power	1 kVA
Max. transmission length	3 km
Environment	
Operation temperature	-20... +55 °C MIL-STD-810F, 502.4, procedure II, 501.4, procedure II
Storage temperature	-30... +60 °C MIL-STD-810F, 502.4, procedure I, 501.4, procedure I
Relative humidity (closed interfaces)	95% MIL-STD-810E, 507.3, procedure I, cycle 3
Waterproof	IP65
Shock (device in transport case)	MIL-STD-810F, method 516.5, procedure I, impulse (20 g, 11ms, sawtooth)
Vibration (device in transport case)	MIL-STD-810F, method 514.5 (1.04 g RMS according to 514.5C-1, 5 - 500 Hz)
External I/O	
Optical connectors	FO-4 (4 x single-mode FO, 1310 nm); HMT1000 to exernal device
Hybride connector	1 x pair copper, 4 x single-mode FO (1310 nm; HMT1000 to HMT1000)
EOW	Microtel connection

Control	1x RS232, 1x 10base-T
230 VAC In	Binder plug, series 693, 7pol pin
230 VAC Out	Binder plug, series 693, 7pol socket
User Interface	
230 VAC switch	On/Off
EOW call	Hook on/off button and indicator
Status indication	LEDs for ▪ Status 230 VAC ▪ link ▪ local error ▪ remote error ▪ overload
Protection	
Isolation to ground	3 kVAC
Power Transmission	Mains power transmission galvanically isolated and monitored with supervision signal
Overload protection	Electronic protection circuit
Approvals	
EMC emissions	MIL-STD 461E
EMC immunity	MIL-STD 461E IEC 61000-4-2 IEC 61000-4-4 IEC 61000-6-2
Transport	
Case	Stocks absorbing carrying case

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