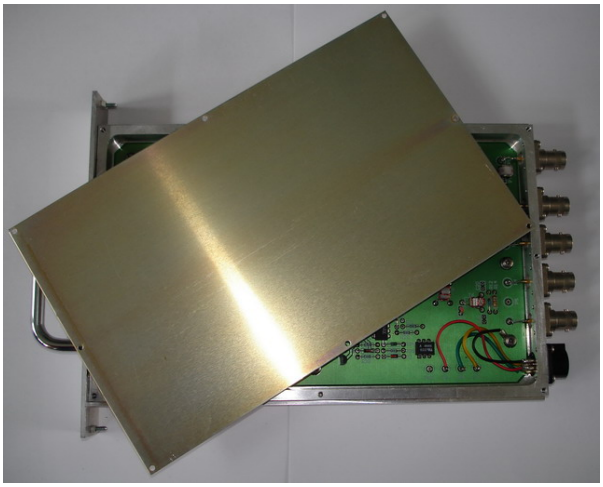
STANCOM Pty Ltd

HF232-164 Multi-coupler Unit

The HF132-6 is a 16 input by 4 output (per input) multi-coupler unit. It is intended for use In HF receiving systems and enables multiple antennas to be connected to an array of receivers. It is based on 16, 4-Way multi-coupler modules. Each module houses a high dynamic range balanced amplifier and splitter. The amplifier has health monitoring and gives an opto-coupler output should failure occur. The whole unit is housed in a 4U high 19" subrack with a depth of 245mm. Power supply is 24V dc. As the module will dissipate significant heat it is recommended that a fan tray be used to blow air from under the unit.



One of 16, 4-way modules which make up the Unit

Specification:

Parameter	Limits
Frequency Range	2 –32MHz
Gain	0.5dB nom.
Noise figure	7dB Max (Typ 5.5dB)
2nd Order Output intercept point *(Note 1)*	>+82dBm
3rd Order Output intercept point *(Note 1)*	>+38dBm
VSWR input and output	1.5:1 (14dB Return Loss)
Maximum input signal (No Damage)	+33dBm
Lightning Protection	2kV, 1.6uS risetime, 50uS duration.
Power Supply	24V dc @ >8A
Connectors input/output	BNC
Connector DC/Alarms	AXR 4 Pin Male
Dimensions	4U High 19" Subrack, Depth 245mm.
Temperature	Operating -10 to +55 DegC
Alarm Interface	Opto coupler

MTBF Per Multi-coupler card is expected to be 160,000Hrs based on previous MIL-HDBK 217E, 'Ground Benign' @25C.

***Note 1**: Inter-modulation Tests are carried out with two +10dBm tones at the output. Frequencies will be 7MHz and 11MHz and levels checked at 15MHz (3OIP) and 18MHz (2OIP).*

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