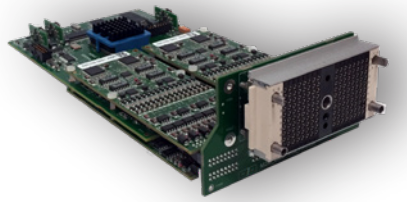
M2M OEM

16X64



MULTIPLEXED ARCHITECTURE

This multiplexed architecture 16x64 provides an efficient and cost-effective solution to Original Equipment Manufacturers for integration into third-party systems. The board and dynamic-link libraries (dlls) are available.

GENERAL	
L x W x H: 210mm x 100mm x 50mm	Weight: ~500 g

HARDWARE CONFIGURATION
Multiplexed architecture: 16x64

LIBRARIES
dll provided

EMBEDDED PROCESSORS
FPGA on CPU-board

PULSERS	
Adjustable voltage: 20 to 80V with 1V step	Rise time < 10 ns (80V, 50 Ω)
Negative rectangular pulse, adjustable width: 30 ns to 625 ns, step of 2.5 ns	Max. PRF: 30 KHz

RECEIVERS	
Bandwidth: 0.8 to 20MHz	Adjustable analog DAC on 80 dB (max. 40 dB/µs) synchronized on events
Adjustable gain on each channel from 0 to 80 dB	Cross-talk between two channels > 50 dB, max. input signal amplitude: 0.8 Vpp

DIGITIZER	
Max. sampling frequency: 100 MHz - Adjustable from 100 MHz to 6.6 MHz	Global delay: 0 up to 1.6 ms, step of 10 ns
Range : 10 bits	Delay-laws at transmission/reception: 0 to 20 µs, step of 2.5 ns
Input impedance: 50 Ω | FIR filters	Digitizing depth: up to 50,000 samples (8,000 samples max. per elementary channel)

I/O	
1 Hypertronix connectors	1 USB2, 2 LEMO connectors (type 00)
3 encoders input, 1 external trigger	External power supply input

Eddyfi Technologies