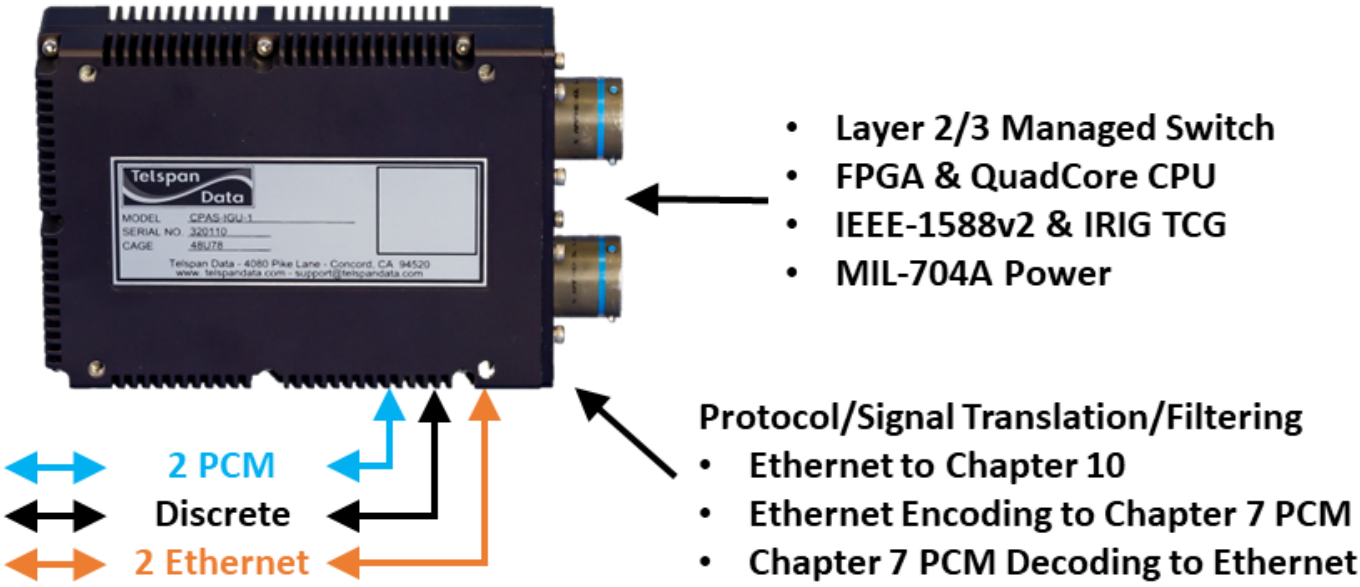
# iGU
## Instrumentation Gateway Unit

### Highlights
- 2 Tri-Speed Ethernet Ports w/ Layer 2/3 Management
- 2 PCM as Input or Output (RS-422)
- CH7 Encoding/Decoding
  - Ethernet Encoding to Chapter 7 PCM
  - Chapter 7 PCM Decoding to Ethernet


### Overview
The iGU instrumentation Gateway Unit is a configurable gateway between instrumentation systems, Ethernet networks and telemetry transmitters.

This small self-contained ruggedized unit, contains a layer 2/3 managed Ethernet switch, FPGA and quad-core ARM CPU which allows flexibility in data processing and protocol transforms. The FPGA can be customized to process proprietary Ethernet data streams and output them as Chapter 10. Also, the iGU provides built-in IRIG 106 Chapter 7 PCM conversion which allows the unit to function as an Ethernet-to-telemetry encoder and telemetry-to-Ethernet decoder.





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## Highlight Specifications

28VDC
MIL-STD-704A

Width 3.75”
Length 5.93”
Height 1.32”

MIL-STD-810F
Shock/Vibe
Gun Fire/Sand
Rain/+ More

2 Pounds

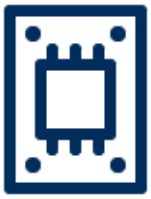
-40C to +75C
MIL-STD-810F

(2) 10/100/1000
Ethernet Ports
Layer 2/3
Managed


(2) RS-422 as
Input or Output
Chapter 7
Encoder/Decoder

1PPS from
IEEE-1588v2

Discrete I/O
Up to 4 Outputs



FPGA / CPU
For Protocol
Transforms

**Full Specifications @ telspandata.com/iGU**

**Ordering Info:**

**iGU-1—Instrumentation Gateway Unit (no modules)**
**iGU-M1—Ethernet to HDLC/CH7 Firmware Module (Encode/Decode)**
**iGU-M3—1 PCM Input to CH10 Output**
**iGU-M5—2 PCM Inputs to CH10 Output**
**iGU-BCS—iGU Breakout Cable Set**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