

# IDM LSU MkIII SSD

## Local storage unit



## No moving parts - fit and forget!

- Failover to CompactFlash if main storage media fails - recording continues
- No fans therefore no ingress of dust to cause local overheating
- New software - 360:1 reduction in the number of write cycles to minimize wear on storage media
- Software upgrade via USB memory stick
- Option for spinning hard drive version for less demanding environments\*

### Product Summary

**Description** A new, more reliable, solid state platform with flash drive, compact flash and USB support plus options for modem and X.21 interfaces

**Application** A rugged, long lasting accessory for use with Qualitrol's IDM multifunction recorder\*\* to provide additional data storage and processing options that will keep working in harsh, dusty environments



\*IDM LSU MkIII HDD - same spec as SSD version but with CompactFlash and flash drive replaced by a hard drive and no fail over functionality

\*\*Fully compatible with IDM V3 systems, minor restrictions apply to older IDM V2 systems

**QUALITROL**<sup>®</sup>  
Defining Reliability



**No moving parts - fit and forget!**

- Extended operating life made possible by totally solid state design and use of high quality components

**Failover to CompactFlash if main storage media fails**

- Data storage is automatically transferred to the backup CompactFlash in the unlikely event of a failure of the flash drive

**No fans therefore no ingress of dust to cause local overheating**

- Dust drawn into the enclosure by fans is deposited on power supplies and active components causing overheating and premature failure
- Dust ingress is particularly prevalent when commissioning at new sites before all civil works have been completed
- Fan less devices are more reliable - no need to change or clean filters

**New software - 360:1 reduction in the number of write cycles to minimize wear on storage media**

- Efficient software with intelligent use of read-write cycles minimizes wear on storage media. It is particularly important with flash drives
- Accelerated tests have successfully been completed to emulate more than 10 years of continuous operation in the most onerous configuration

**Software upgrade via USB memory stick**

- Simplifies the task of adding extra functionality to the device as it evolves

**Option for spinning hard drive version for less demanding environments**

- A more economic offering where the flash drive and compact flash are replaced by a 24/7 rated HDD

## TECHNICAL SPECIFICATIONS

<b>Power supply</b>	Voltage range	88 to 300 VDC / 90 to 264 VAC
	Power	35 VA
	Device on/off	Front panel push button starts shutdown sequence - no dongle
<b>Performance</b>	Performance	1.6 GHz Intel Atom
	Memory	2 GB
	CompactFlash	16 GB sufficient for 7 days of CSS recording from 4 x IDM DAUs
	Flash drive	32 GB sufficient for 15 days of CSS recording from 4 x IDM DAUs
<b>Comms</b>	USB	4 ports, 2 on front panel and 2 on rear panel
	Serial	2 x DB9 connectors on rear panel
	Ethernet	2 x RJ45 connectors on rear panel
<b>Configuration</b>	Web page	Accessed by standard browser using the device IP address
<b>Security</b>	Access	Protected by user name and password
<b>Environmental</b>	Temperature	Operating (SSD): -5 to +60° C [23 to 140° F]. Operating (HDD): 0 to +45° C [32 to 113° F] Storage: -30 to +70° C [-22 to 158° F]
<b>Immunity</b>	IEEE, EU, IEC	Type tested to be suitable for use in transmission substations
<b>Mechanical</b>	19" rack mount	Height 89mm [3.5"]; width 482mm [19"]; depth 342mm (13.5"). Weight 10 kg [22 lbs]

## OPTIONS

<b>Hardware</b>	Modem	Mounted in rack. USB connected with line surge suppressor
	X.21 interface	Mounted in rack. USB connected
<b>Software</b>	Power quality	Harmonics, flicker, 10 s and 10 min logging, voltage dips and swells
	Synchrophasors	Single phase or sequence phasors from up to 4 x IDM DAUs
	61850	GOOSE triggering and digital status, COMTRADE files, real time values

©2011 QUALITROL® Company LLC, an ISO 9001 system certified company. All rights reserved. Information subject to change without notice. All trademarks are properties of their respective companies, as noted herein. IP-F23-03L-01E.