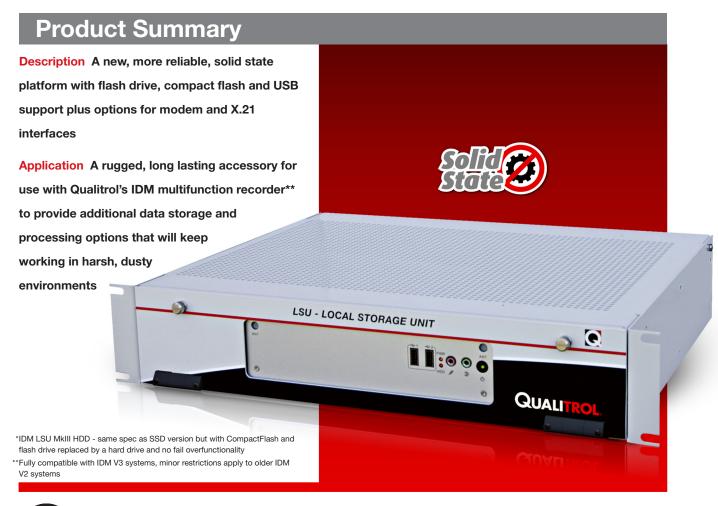
## **IDM LSU MkIII SSD**

## 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\*





## IDM LSU MkIII SSD Local storage unit



No moving parts - fit and forget!	<ul> <li>Extended operating life made possible by totally solid state design and use of high quality components</li> </ul>
Failover to CompactFlash if main storage media fails	<ul> <li>Data storage is automatically transferred to the backup CompactFlash in the unlikely event of a failure of the flash drive</li> </ul>
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
	<ul> <li>Dust ingress is particularly prevalent when commissioning at new sites before all civil works have been completed</li> </ul>
	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
	<ul> <li>Accelerated tests have successfully been completed to emulate more than 10 years of continuous operation in the most onerous configuration</li> </ul>
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	<ul> <li>A more economic offering where the flash drive and compact flash are replaced by a 24/7 rated HDD</li> </ul>

TECHNICAL SPECIFICATIONS		
Power supply	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
Performance	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
Comms	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
Configuration	Web page	Accessed by standard browser using the device IP address
Security	Access	Protected by user name and password
Environmental	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]
Immunity	IEEE, EU, IEC	Type tested to be suitable for use in transmission substations
Mechanical	19" rack mount	Height 89mm [3.5"]; width 482mm [19"]; depth 342mm (13.5"). Weight 10 kg [22 lbs]
OPTIONS		
Hardware	Modem	Mounted in rack. USB connected with line surge suppressor
	X.21 interface	Mounted in rack. USB connected
Software	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

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