

## **Specification Sheet S2565F-001**

Modular Hybrid 64x64 Digital/Analog Switching Array System S2565F & S2565FX

125MHz Baseband, 60Mbps TTL, 50Mbps '422

February 2019

## **General**

Automating "patch panels" is a proven & effective method to reduce facility operating costs by increasing efficiency, productivity and reliability. Our \$2565F(X) unit is a modular high density 5RU automated patch unit that can be configured in symmetric or asymmetric configurations from 8x8 to 64x64 in the same chassis.

Designed specifically to provide hybrid analog/digital capability, it can be populated with both analog modules and digital modules at the same time (analog baseband video, and high performance digital TTL, or 422). In addition, it's completely self-contained with signal connectors located at the rear installed I/O modules on the unit (no external adapter panels needed).

Providing routing/distributing/conversion of digital data in either synchronous or asynchronous modes, the System S2565F helps eliminate the use of manual patch bays, convertors and patch cords. Digital data can be input TTL, and come out 422 (or the opposite). It is a high-density array designed to switch in either synchronous or asynchronous modes routing single-ended and differential (422) digital signals such as RS-422, PCM, TTL, clock & data, or other similar signals.

Fully populated, this 5RU unit contains a total of 64 inputs and 64 outputs where a given input can be connected to one, many, or all 64 outputs (full fan-out non-blocking). The S2565FX is the same but has a 10.1" display (**Option X**) and additional front panel features.

The unit comes standard with redundant hot-swap power supplies, and is available with either single or dual (redundant) hot-swap C3 controllers installed. The C3 controller features 10/100 Ethernet (LXI certified), USB 2.0 and multi-serial (RS-232C/422A/485) control ports. Contact your local sales representative or the factory for assistance.

# **Applications**

- Telemetry data TTL or PCM streams
- Clock and Data routing
- Differential 422 to TTL conversion, or TTL to 422
- Data recorder data management
- Imaging and animation production facilities
- Production studios

### **Features**

- High reliability 64x64 redundant Tri-Stage design
- Hybrid analog and digital switch core
- LED indicators adjacent to each port
- Designed for hybrid digital & analog switching
- Flexible configuration: 8x8 up to 64x64 (or larger)
- Multiple units can be grouped to configure 256x256
- Ultra-high density, 4,096 crosspoints in 5RU
- DC to 60Mbps throughput for TTL I/O paths
- Digital input activity monitoring included
- Hot-swap module technology
- Menu driven color touchscreen display (4.3" or 10.1")
- Available with either single or dual CPUs
- 10/100 Ethernet, USB and Serial control ports \*
- Includes TCP/IP, SNMP, SNTP, IPv4 & IPv6 & browser
- Removable microSD card for secure environments
- Rugged 5RU high aluminum chassis (8.75")
- International AC power range
- Self-monitoring hot-swap plug-in supplies with PFC
- Integrated rack mount design (19 inch)
- Chassis slide mounting hardware (slides not included)
- Certified CE EN61010 (LVD)
- Compatible with RouteWarePRO control software

<sup>\*</sup> New C3+ control CPU in Q3 2018 includes 1GB Ethernet and SNMP v1/v2/v3.











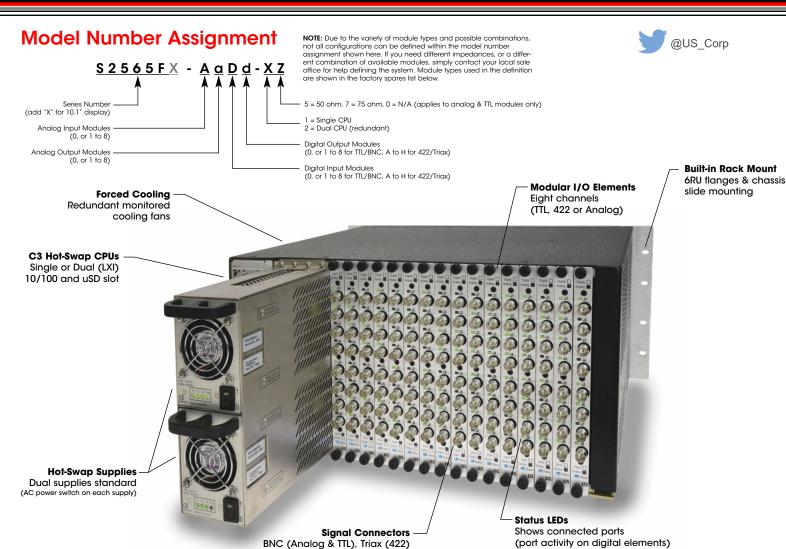


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S2565F-201902





#### **General Specifications** System S2565F Specifications Module technology Power supply section Controller CPU Remote interface Protocol Local control .Hot-Swappable .Redundant hot-swap .Single or Dual (redundant) .10/100 Ethernet, USB & Serial (232/422/485) \* .TCP/IP, SNMP v1/v2, SNTP, IPV4, IPV6 \* .Color touchscreen (4,3" or 10.1") Minimum array size ........8 input, 8 output Maximum array size .......64 input, 64 output Expansion increment . . . . . . 8 ports per module Local control Configuration routing Configuration memory Cooling AC power requirements Power cords Weight Size AutoRoute or manual Flash Forced cooling with RPM monitoring 90-264VAC, 47-63Hz, <400Watts Switching technology ...... Analog / Digital Hybrid Type of system .................Non-blocking with full fanout Architecture ......Tri-Stage redundant, uni-directional .Dual inputs (USA 15A) .50lbs .8.73H x 22.00D x 19.00W (5RU) \*\* Systems comprised of multiple units are individually controlled unless you add the MAC1 or MAC4 master array controllers. **Input Characteristics** Analog Impedance Input type Max input \* New C3+ control CPU in Q3 2019 includes 1GB Ethernet and SNMP v1/v2/v3. Digital TTL Impedance ... Input type .... **Factory Spares** Analog In-module VI2565F-A1-5C (50 ohm, BNC) Digital TTL In-module VI2565F-DT-5C (50 ohm, BNC) Analog In-module VI2565F-A1-7C (75 ohm, BNC) Digital TTL In-module VI2565F-DT-7C (75 ohm, BNC) Digital '422 In-module VI2565F-D4-1T (100 ohm, Triax) Connector ......BNC Digital 422 Impedance ...... Input type ..... Mid-module ......VSM2561D-D02 **Output Characteristics** Digital TTL Out-module ......VO2565F-DT-7C (75 ohm, BNC) Output type Max output Connector . Digital TTL Output type Connector . Standard TTL Levels, >60Mbps



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sequently the company reserves the right to vary from the descriptions

and specifications shown in this publication.

Digital 422
Output type
Connector.