

General

To support signal switching, distribution, and monitoring applications requiring large channel counts, the recommended system may be comprised of several units working in concert. Operation of such an array typically requires application specific control software.

The MAC4 (Master Array Controller) is specifically designed to streamline control of a multi-system array. It can operate a group of switching hardware while providing the user with a single cross point configuration to control. It supports the 488.2 protocol common to Universal Switching products and can create arrays with most in-service units manufactured in the last decade.

Although intended for use with large system arrays, the MAC4 can also be used as a remote access panel or expanded function display for smaller single-system applications. Since the MAC4 communicates over Ethernet, it can be physically located anywhere that it can communicate to the other systems in the array. The MAC4 is designed for standard 19-inch rack mounting or desktop use.

An additional feature is the capacity to control two locally connected "PUC" modules. The MAC4 functions as a 10" display controller option for our RSX4/UC1 product lines.

For reliability, the unit includes redundant replaceable power supplies. The integrated C3 controller features 10/100 Ethernet supporting LXI certified TLS secured WEB access, SNMP v1/v2/v3, and TCP/IP remote control access. To get the MAC4 for a new application or to enhance and expand an existing Universal Switching system, contact your local sales representative or the factory for assistance.

Applications

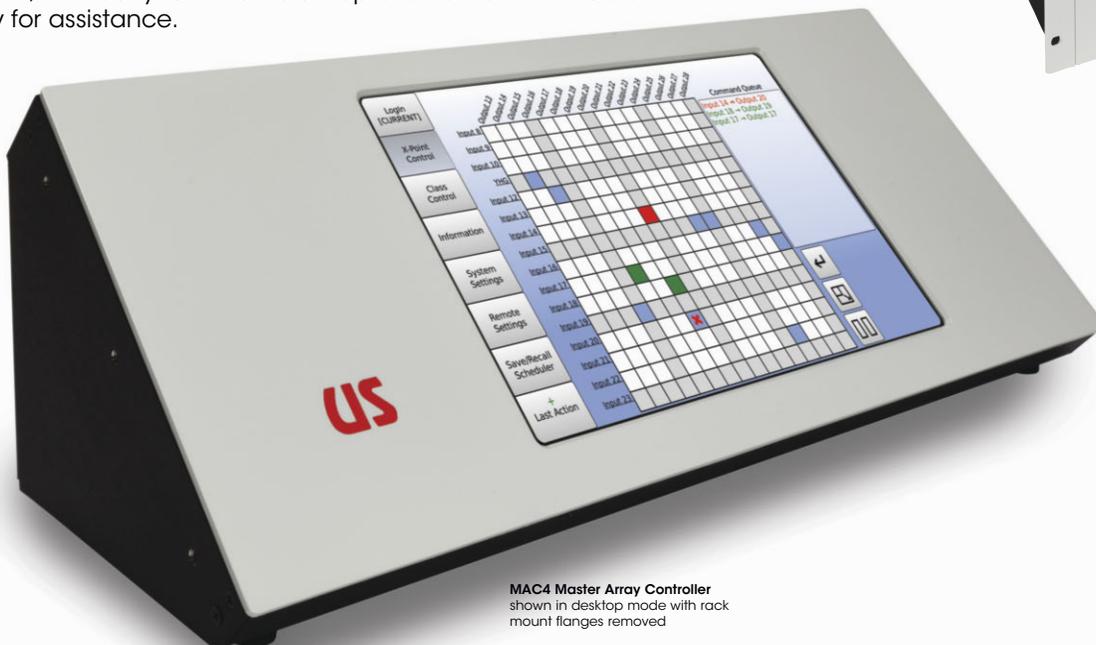
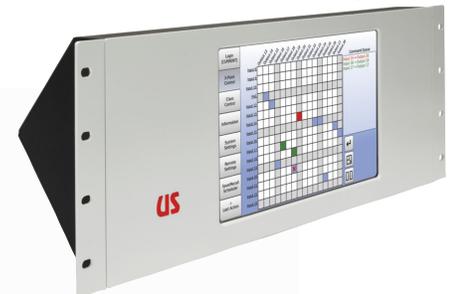
- Large channel count switching applications, all types
- Dedicated remote control hardware for any USC switching product
- Integrated test and measurement systems

Features

- Menu driven 10.1" color touchscreen display
- Simplified control of any large system array
- Can be used to add a remote 10" display for any compatible Universal Switching product
- Multiple MAC4 units can also be used to control a single unit for redundancy or multi-user control
- Control up to two PUC series switch modules
- 19-inch 4RU mainframe designed for rackmount or ergonomically angled bench mount use
- 10/100 Ethernet control ports
- Includes TCP/IP, SNMP, SNT, IPv4 & IPv6 & browser
- International AC power range
- Self-monitoring hot-swap plug-in supplies
- Integrated rack mount design (19 inch)
- Certified CE EN61010 (LVD)
- Compatible with RouteWarePRO control software



MAC4 Master Array Controller
 (shown with rack mount flanges installed)



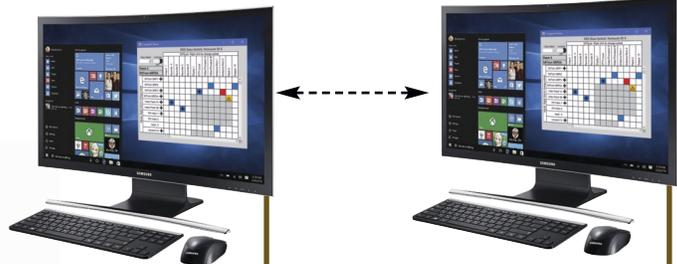
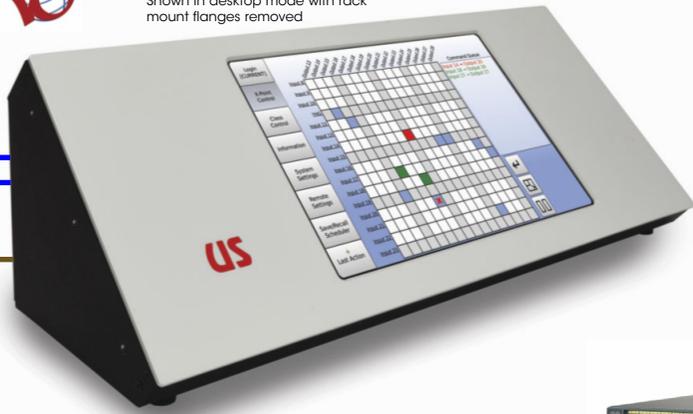
MAC4 Master Array Controller
 shown in desktop mode with rack
 mount flanges removed



Made in the USA



MAC4 Master Array Controller
Shown in desktop mode with rack mount flanges removed



User Control PC's
Windows PC's running RouteWarePRO 5.0 or user custom application software.



Ethernet Switcher (not included):
Any high quality 100M/1Gbps should suffice for providing the control data hub function.

Example Multi-Chassis System
Shown here are four of our S2561F units. Each unit is a full 256x256 and connected together with supporting signal adapters configure a 512x512. By adding the MAC4, the hardware controls as a 512x512.



PUC1 Modules
Up to two "PUC" modules can be controlled directly from the MAC4 controller at the same time for other miscellaneous switching tasks. Modules can be located over 100 meters away. Consult factory.

General Specifications

Power supply section	Redundant pluggable
Controller CPU	Single
Remote interface	10/100 Ethernet
Protocol	TCP/IP, SNMP v1/v2/v3, SNTP, IPV4, IPV6
Local control	Color touchscreen (10.1")
Configuration routing	AutoRoute or manual
Configuration memory	Flash
AUX Ports	Compatible with PUC technology (2)
Alarm port	Included
Cooling	Convection cooling
AC power requirements	90-264VAC, 47-63Hz, <20Watts
Power cords	Dual inputs (USA 15A)
Weight	10lbs
Mounting	4RU rack mount brackets included or desktop use with rubber feet
Size	6.97"H x 5.00"D x 19.00"W (4RU)
Operating temp	0 to +60C
Non-operating temp	-20 to +85C
Humidity	0 to 95% (NC @ +25C)
MTBF	>265,000 hours (per MIL-HDBK-217F N1, ground benign @ +25C) estimated

* Control CPU in Q3 2019 includes 1GB Ethernet.

Factory Spares

Power supply elementPSAUC1-080



Download our Monitor & Control software **RouteWarePRO** for a FREE 30-day trial today!

Universal Switching's policy is one of continuous development, and consequently the company reserves the right to vary from the descriptions and specifications shown in this publication.

