

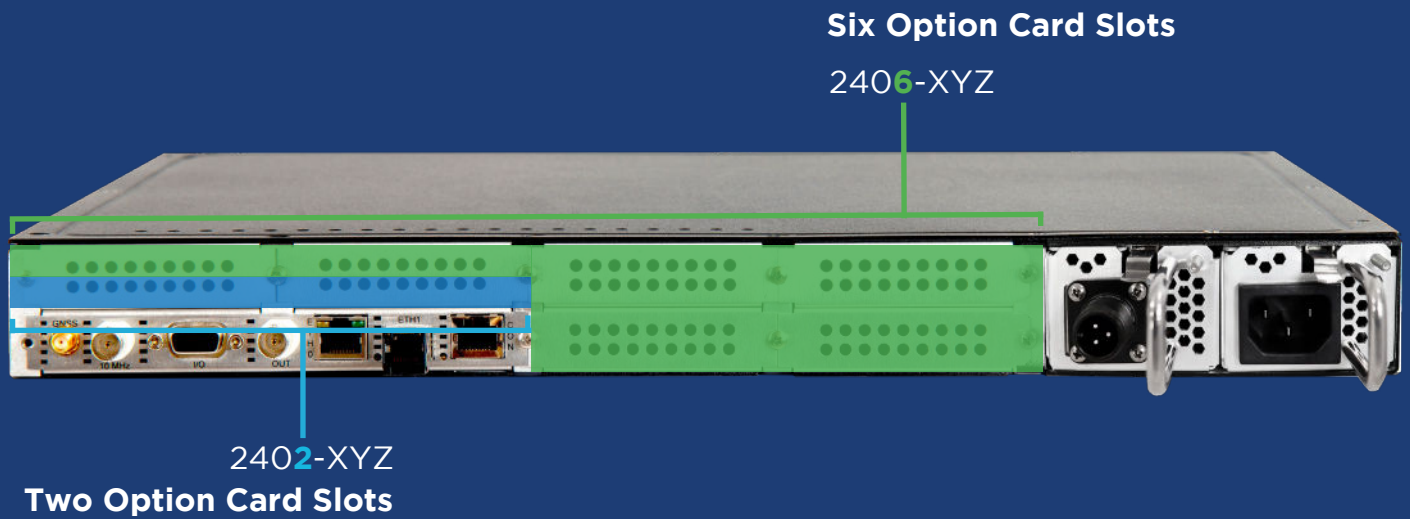
ELECTRONICS & DEFENSE



# BUILD YOUR OWN SECURESYNC 2400 MASTER CLOCK GUIDE



# 1. Choose the Form Factor



# 2. Select the Backup Oscillator

| 240W-XYZ  | 0 = TCXO | 1 = OCXO | 2 = OCXO LPN | 3 = Rubidium | 3 = Rub LPN |
|---|----------|----------|--------------|--------------|-------------|
| Accuracy to UTC<br>(locked to GPS, @ 1 sigma)                         | ±50 ns   | ±25 ns   | ±15 ns       | ±15 ns       | ±15 ns      |
| Holdover (constant temp after 2 weeks of GPS lock)                    |          |          |              |              |             |
| After 4 hours   | 12 µs    | 1 µs     | 0.5 µs       | 0.2 µs       | 0.2 µs      |
| After 24 hours  | 450 µs   | 25 µs    | 10 µs        | 1 µs         | 1 µs        |
| Signal Waveform & Levels: TTL (5 V <sub>P-P</sub> ), into 50 ohm, BNC |          |          |              |              |             |

# 3. Build the Power

| Single Fixed Power  |
|---|
| 240W-XYZ  |
| <i>Populate the X with the a power option below:</i>  |
| <b>0 = 100-240 VAC</b>  |
| <b>3 = 12 VDC</b>   |
| <b>4 = 24/48 VDC</b>  |
| <i>Integral power supply, ships with line cord or mating connector</i>  |
| Hot Swap Power  |
| 240W-6YZ  |
| <i>Dual Hot-Swap requires ordering at least one power module, on top of power option 6 for the base unit. Order (1) or (2) of the these power supply line items with the base unit, in any combination:</i> |
| <b>2400-HS-A1 = 100-240VAC</b>  |
| <b>2400-HS-D1 = 12 VDC</b>  |
| <b>2400-HS-D2 = 24/48 VDC</b>   |



## 4. Pick the I/O

### Expand Network Capacity



**1204-49 Dual Nic Option Card (SFP)**  
(NTP-Only Ports)



**1204-4A Quad Nic Option Card (SFP)**  
(NTP-Only Ports)

### Order Option Card(s)

- 2400 includes two Gbe Network ports on chassis (1) RJ-45, (1) SFP.
- Add additional network cards to increase processing capacity and the number of ports from 2 (Base) to 4, 6, 8, or 10 network ports in a single 1RU chassis.
- The ethernet ports of the base chassis unit provide NTP, PTP, and Management capabilities.
- Field upgradeable.



Order  
SFP-Copper  
Module(s)

## 5. Add NENA Compliance



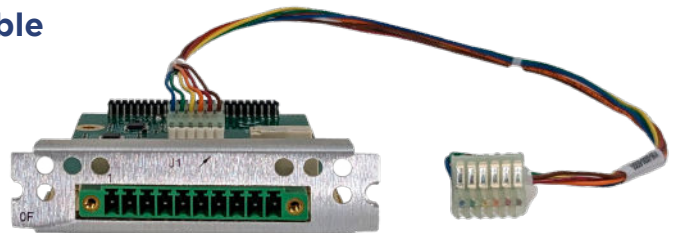
**CA08R-0000-0010 NENA Breakout Cable**

- IRIG Out (BNC)
- ASCII RS-232 OUT (DB9F)
- ASCII RS-485 OUT AND Relay/Alarm\* OUT (Terminal Block)

\* Requires 1204-0F installed

With these options installed, SecureSync meets NENA Master Clock spec: NENA-STA-026.5-2016 and offers compatibility to synchronize legacy Spectracom TimeView Display Clocks over RS-485 Terminal Block. For more information on set up of these options, see [SecureSync2400\\_NetClock\\_Option\\_Guide\\_rev1](#)

### 1204-0F Alarm Relay Option Card







## Example Configuration

- (1) SecureSync 2406-613
- (1) 2400-HS-A1
- (1) 2400-HS-D2
- (1) 1204-4A
- (1) 1204-49
- (1) CA08R-0000-0010
- (1) 1204-0F

## 6. Add on the Accessories

**Antenna**



8230

**Anti-Jam Antenna**



8230AJ

**Surge Protector**



8226

**Inline Amplifier**



8227

**Flat Roof Antenna Base**



8213

**Flat Roof Antenna Base**



8213

**Grounding Kit for Surge Protector**



8226-0002-0600

**Antenna Splitter**



8224

**Ruggedized Antenna Bracket**



ANT-KT

**Antenna Post Mast**



8235

**Antenna Coax Cable**



CA01-0N0N-3xxx

**SecureSync Breakout Cable**



CA08R-D500-0001

[safran-navigation-timing.com](http://safran-navigation-timing.com)



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