<table>
<thead>
<tr>
<th>Type</th>
<th>Band</th>
<th>Frequency (GHz)</th>
<th>Power (W)</th>
<th>Size/Mounting</th>
</tr>
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<tbody>
<tr>
<td>N6318, C, D, S, UA, UB, P &amp; Z</td>
<td>Ku</td>
<td>13.75 - 14.5</td>
<td>180</td>
<td>203H x 436L x 213W mm ODU</td>
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<tr>
<td>N6315, C, D, S, UA, UB, P &amp; Z</td>
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<td>13.75 - 14.5</td>
<td>150</td>
<td>203H x 436L x 213W mm ODU</td>
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<tr>
<td>N6312, C, D, S, UA, UB, P &amp; Z</td>
<td>Ku</td>
<td>13.75 - 14.5</td>
<td>125</td>
<td>203H x 436L x 213W mm ODU</td>
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<tr>
<td>N6612, D</td>
<td>Tri</td>
<td>5.85 - 6.425</td>
<td>110</td>
<td>203H x 436L x 213W mm ODU</td>
</tr>
<tr>
<td>N6712, D, C &amp; Z</td>
<td>Ka</td>
<td>27.5 - 29.5</td>
<td>105</td>
<td>230H x 500L x 260W mm ODU</td>
</tr>
<tr>
<td>N6812, D, C &amp; Z</td>
<td>Ka</td>
<td>30.0 – 31.0</td>
<td>95</td>
<td>230H x 500L x 260W mm ODU</td>
</tr>
</tbody>
</table>

Options:
- D: Integral digital gain control
- UA: Integral to Ku band up-converter (14.0 to 14.5GHz)
- UB: Integral to Ku band up-converter (13.75 to 14.5GHz)
- S: Ku band breakout link
- C: Low gain option
- P: Sample port (RF output monitor)
- Z: Integral linearizer

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<tr>
<th>Type</th>
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<tbody>
<tr>
<td>STA1140 C</td>
<td>5.85 - 6.65</td>
<td>400</td>
<td>520H x 260L x 244W mm ODU</td>
<td></td>
</tr>
<tr>
<td>STA1240 X</td>
<td>7.9 - 8.4</td>
<td>400</td>
<td>520H x 260L x 244W mm ODU</td>
<td></td>
</tr>
<tr>
<td>STA1340 Ku</td>
<td>13.75 - 14.5</td>
<td>400</td>
<td>520H x 260L x 244W mm ODU</td>
<td></td>
</tr>
<tr>
<td>STA1427 DBS</td>
<td>17.3 - 18.4</td>
<td>270</td>
<td>520H x 260L x 244W mm ODU</td>
<td></td>
</tr>
</tbody>
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All rated to 50˚c plus solar gain

Options:
- C: No Pre-Amp
- A: Integral solid state amplifier
- D: As option 'A' but includes an attenuator to provide 25dB (min.) of gain control
- Z: Integral linearizer which incorporates the pre-amp and gain control options
- U: Integral L band upconverter
- S: 'Break out' link. This enables bypassing of the upconverter and can be used for monitoring, set-up, redundant switching etc.

Switching Systems & Accessories

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<th>Type</th>
<th>Band</th>
<th>Frequency (GHz)</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>N6080</td>
<td>ODU</td>
<td>Battle override connector</td>
<td></td>
</tr>
<tr>
<td>N6081-01</td>
<td>Single ODU controller</td>
<td>1U</td>
<td></td>
</tr>
<tr>
<td>N6081D-01</td>
<td>Single ODU controller with Gain control</td>
<td>1U</td>
<td></td>
</tr>
<tr>
<td>N6143</td>
<td>Dual ODU controller with 1:1 switch control</td>
<td>1U</td>
<td></td>
</tr>
<tr>
<td>N6143C Ku</td>
<td>12.75 - 14.5</td>
<td>Dual ODU controller with 1:1 waveguide system</td>
<td>1U</td>
</tr>
<tr>
<td>N6145</td>
<td>Ku 12.75 - 14.5</td>
<td>Compact redundant combiner (CRCA) system</td>
<td>2U</td>
</tr>
</tbody>
</table>

Plus a range of fully weatherproof interconnecting cable assemblies for the ODU are available on request.

Stellar Rack

<table>
<thead>
<tr>
<th>Type</th>
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</tr>
</thead>
<tbody>
<tr>
<td>N1400-200 X</td>
<td>7.9 - 8.4</td>
<td>2,250</td>
<td>14U Rack</td>
</tr>
<tr>
<td>N6146</td>
<td>Remote controller for 2 to 3kW amplifiers</td>
<td></td>
<td></td>
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Detailed datasheets for each of the above items are available on request or from our website www.e2vtechnologies.com

Availability

Most of these devices are available for dispatch at very short notice via our extensive distribution locations throughout the world.

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Stellar high power amplifiers

**Features**
- Fully qualified and field proven
- Easy to maintain, modular, rugged design approach
- User-friendly, comprehensive control & monitoring system
- Exceptionally powerful integral cooling fans, supporting operation into external ducting
- Available configured into rack systems including:
  - Main distribution and protection systems, fully welded
  - Cooling system ducting to external user interface
  - Integrated switching / combining systems of up to four individual amplifiers (8kW)
  - Range of rack accessories, colors and styles
  - Back cooling / wiring options
  - Rugged anti-shock amplifier mounting rails and blocks
  - Comprehensive central control, fully welded
  - Remote main control room panel and interface
  - System level RF power monitoring, control and routing
  - Integral linearizer (option for selected products)
  - Integral gain equalizer (option for selected products)
  - Full RF power monitoring, including input, output and inverse power

Stellar outdoor amplifiers

**Features**
- Easy to integrate and use
- Compact and lightweight
- Automatic operation over a wide range of output power outputs
- Integral power failure correction design
- Highly reliable
- Modular design
- No scheduled maintenance required
- Rugged design suitable for corrosive environments and mounting in exposed locations

Product support

Our teams provide worldwide comprehensive support with access to technical experts 24 hours a day. Our engineers are available to discuss your needs, assist with product selection and work with you to integrate equipment successfully, ensuring longevity and reliability from our products.

- Pre-sales engineering advice for amplifier related high power RF systems design
- Sales / support centers in over 60 countries
- Installation and commissioning service
- Tailored product training packages (Factory or on-site)
- Product maintenance agreements
- Strategic placement stocks of spare sub-assemblies
- Hotline - 24 hour telephone diagnostic and repair support
- ESM + 44 (0)1245 355 399
- USA + 1 888 433 8852
- Global +61 3 9705 1993
- Service engineer in-territory support available
- Loan units available for evaluation and support
- Return to factory repair service

Technology

As a long established manufacturer of satellite communication amplifiers with over fifty years experience in design and production of TWTs, we are able to provide high levels of RF performance, linearity and long tube life. Using the latest design technology, we apply this expertise to provide compact, efficient and highly reliable amplifiers, with a host of user-friendly features.

Covering all primary satellite frequency bands, the versatile Stellar High Power Amplifiers (HPAs) can be supplied in standard or custom configurations. Frequencies range from 5.85GHz to 31GHz. Power levels of up to 8kW can be achieved through combining systems.
This guide provides a quick reference to e2v technologies’ range of Stellar amplifiers for use in satellite communications. e2v's amplifiers are designed for use in fixed stations, ground stations and mobile applications worldwide. Stellar flyaway or truck based systems meet the demanding challenges faced by satellite newsgathering (SNG) and digital satellite news gathering (DSNG) teams to get their stories onto the world's TV screens as they happen, 24 hours a day.

In addition to the amplifiers, e2v also manufactures microwave switching and combining systems that provide all necessary redundancy configurations to ensure unbroken transmission.

### Stellar outdoor amplifiers
- Easy to integrate and use
- Compact and lightweight
- Automatic operation over a wide range of prime power voltages
- Integral power factor correction design
- Highly reliable
- Modular design
- No scheduled maintenance required
- Rugged design suitable for transportable terminals and mounting in required locations

### Stellar high power amplifiers
- Fully qualified and field proven
- Easy to maintain, install, rugged design approach
- User friendly, comprehensive control & monitoring system
- Exceptionally powerful, integral cooling fans, supporting operation into external ducting
- Available configured into rack systems including: mains distribution and protection systems, fully wired
- Cooling system ducting to external user interface
- Integrated switching / combining systems of up to four individual amplifiers (HPAs)
- Range of rack accessories, colour options
- Back cooling / venting options
- Rugged anti-shock amplifier mounting rails and blocks
- Comprehensive central control unit, fully wired
- Remote main control room panel and interface
- System level RF power monitoring, control and routing
- Integral linearizer (option for selected products)
- Integral gain equalizer (option for selected products)
- Full RF power monitoring, including input, output and intermediate power levels

### Technology
As a long established manufacturer of satellite communication amplifiers with over fifty years experience in design and production of TWTs, we are able to provide high levels of RF performance, linearity and large tube life. Using the latest design techniques, we apply this expertise to provide compact, efficient and highly reliable amplifiers, with a host of user-friendly features.

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### Product support
Our teams provide worldwide comprehensive support with access to technical experts 24 hours a day. Our engineers are available to discuss your needs, assist with product selection and work with you to integrate equipment successfully, ensuring longevity and reliability from our products.

- Pre-sales engineering advice for amplifier related high power RF systems design
- Sales / support centers in over six countries
- Installation and commissioning service
- Tailored product training packages (factory or on-site)
- Product maintenance agreements
- Strategic placement stocks of spare sub-assemblies
- Hotline - 24 hour telephone diagnostic and repair support
- Email: techsupport@e2v.com
- Sales + (UK) 01245 355398
- Service engineer in-territory support available
- Loans units available for evaluation and support
- Return to factory repair service

### Remote control options
- 1:1 redundant and phase combined systems for medium and large power applications
- Internal or redundant switching
- All amplifiers are provided with a comprehensive range of control features following the integration of integrated systems into single or multiple amplifiers. Our range of RF, video, control and status control panels cover the needs of different applications and are configured to suit most popular applications.

### Features
- System accessories include remote control panels, interface and control panels, RF and video switching systems, and command and control sub-systems
- Integral gain equalizer (option for selected products)
- Integral linearizer (option for selected products)
- Field of power monitoring, including input, output and intermediate power levels
- Wide input output range, allowing operation from the broadest power supplies (medium power commercial product type)
Stellar outdoor amplifiers

Features

- Easy to integrate and use
- Compact and lightweight
- Automatic operation over a wide range of prime power voltages
- Integral power fail-over connection design
- Highly portable
- Modular design
- No scheduled maintenance required
- Rugged design suitable for portable use and mounting to existing locations

Remote control options

- 1:1 redundant and phase combined systems for antenna mount applications
- Internal control of redundant switching
- All amplifiers are provided with a comprehensive range of control and monitoring options suitable for integrated systems and single or multiple amplifiers. The range of options is such that control panels can be custom specified to suit most popular applications.

Remote control options

- Local control panel (with redundant & combining options)
- Remote control panel

Stellar high power amplifiers

Features

- Fully qualified and field proven
- Easy to maintain, install, rugged design approach
- User friendly comprehensive control & monitoring system
- Exceptionally powerful integral cooling fans, supporting operation into external ducting
- Available configured into rack systems including:
  - Main distribution and protection system, fully wired
  - Cooling system ducting to external user interface
  - Integral switching / combining systems of up to four individual amplifiers (HPA)
  - Range of rack accessories, colors and endcaps
- Back cooling / venting options
- Rugged anti-shock amplifier mounting rails and blocks
- Comprehensive central control unit, fully wired
- Remote main control room panel and interface
- System level RF power monitoring, control and routing
- Integral linearizer option for selected products
- Integral gain equalizer (for selected products)
- Full RF power monitoring, including input, output and inverter power

Technology

As a long established manufacturer of satellite communication amplifiers with over fifty years experience in design and production of TWTs, we are able to provide high levels of HP performance, linearity and long tube life. Using the latest design technology, we apply this expertise to produce compact, efficient and highly reliable amplifiers, with a host of user-friendly features.

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- Remote main control room panel and interface
- System level RF power monitoring, control and routing
- Integral linearizer option for selected products
- Integral gain equalizer (for selected products)
- Full RF power monitoring, including input, output and inverter power

Control and monitoring systems offer

- Access to detailed information such as the "lifetime" TWT log
- Alphanumeric screens with soft key controls
- Built-in fault and status logging with date and time record
- Serial control interfaces
- RS232/422/485
## Stellar Satcom Amplifiers

### Stellar Outdoor Unit

<table>
<thead>
<tr>
<th>Type</th>
<th>Band</th>
<th>Frequency (GHz)</th>
<th>Power (W)</th>
<th>Size</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6318</td>
<td>C, D, S, UA, UB, P &amp; Z</td>
<td>Ku 13.75 - 14.5</td>
<td>180</td>
<td>203H x 436L x 213W mm</td>
<td>ODU</td>
</tr>
<tr>
<td>N6315</td>
<td>C, D, S, UA, UB, P &amp; Z</td>
<td>Ku 13.75 - 14.5</td>
<td>150</td>
<td>203H x 436L x 213W mm</td>
<td>ODU</td>
</tr>
<tr>
<td>N6312</td>
<td>C, D, S, UA, UB, P &amp; Z</td>
<td>Ku 13.75 - 14.5</td>
<td>125</td>
<td>203H x 436L x 213W mm</td>
<td>ODU</td>
</tr>
<tr>
<td>N6612</td>
<td>D</td>
<td>Tri 5.85 - 6.425</td>
<td>110</td>
<td>203H x 436L x 213W mm</td>
<td>ODU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7.9 - 8.4</td>
<td>140</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13.75 - 14.5</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N6712</td>
<td>D, C &amp; Z</td>
<td>Ka 27.5 - 29.5</td>
<td>105</td>
<td>230H x 500L x 260W mm</td>
<td>ODU</td>
</tr>
<tr>
<td>N6812</td>
<td>D, C &amp; Z</td>
<td>Ka 30.0 – 31.0</td>
<td>95</td>
<td>230H x 500L x 260W mm</td>
<td>ODU</td>
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</table>

### Options
- D: Integral digital gain control
- UA: Integral L to Ku band up-converter (14.0 to 14.5GHz)
- UB: Integral L to Ku band up-converter (13.75 to 14.5GHz)
- S: Ku band breakout link
- C: Low gain option
- P: Sample port (RF output monitor)
- Z: Integral linearizer

### StellarCool™

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<tr>
<th>Type</th>
<th>Band</th>
<th>Frequency (GHz)</th>
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<tbody>
<tr>
<td>STA1140</td>
<td>C</td>
<td>5.85 - 6.65</td>
<td>400</td>
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<td>ODU</td>
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<td>STA1240</td>
<td>X</td>
<td>7.9 - 8.4</td>
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<tr>
<td>STA1427</td>
<td>DBS</td>
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<td>ODU</td>
</tr>
</tbody>
</table>

### All rated to 50˚c plus solar gain

### Options
- C: No Pre-Amp
- A: Integral solid state amplifier
- D: As option ‘A’ but includes an attenuator to provide 25dB (min.) of gain control
- Z: Integral Linearizer which incorporates the pre-amp and gain control options.
- U: Integral L band upconverter
- S: ‘Break out’ link. This enables bypassing of the upconverter and can be used for monitoring, set-up, redundant switching etc.

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<tr>
<td>N6080</td>
<td></td>
<td>Battle override connector</td>
<td>19” rack mountable units</td>
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<tr>
<td>N6081-01</td>
<td></td>
<td>Single ODU controller</td>
<td>1U</td>
</tr>
<tr>
<td>N6081D-01</td>
<td></td>
<td>Single ODU controller with Gain control</td>
<td>1U</td>
</tr>
<tr>
<td>N6143</td>
<td></td>
<td>Dual ODU controller with 1:1 switch control</td>
<td>1U</td>
</tr>
<tr>
<td>N6143C</td>
<td></td>
<td>Ku 12.75 - 14.5</td>
<td>Dual ODU controller with 1:1 waveguide system</td>
</tr>
<tr>
<td>N6145</td>
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<td>Ku 12.75 - 14.5</td>
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Plus a range of fully weatherproof interconnecting cable assemblies for the ODU are available on request.

### Stellar Rack

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### Availability

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---

**UK**

e2v technologies ltd
Waterhouse Lane
Chelmsford
Essex CM1 2QU
United Kingdom
T +44 (0)1245 493 493
F +44 (0)1245 492 492

**USA**

e2v technologies inc
4 Westchester Plaza
Elmsford
NY 10523-1482
T +1 914 592 6050
F +1 914 592 5148

**France**

e2v technologies sas
16 Burospace
F-91 572 Bievres Cedex
T +33 (0) 1 6019 5500
F +33 (0) 1 6019 5529

**Germany**

e2v technologies gmbh
Industriestraße 29
82194 Gröbenzell
T +49 (0)8142 410 570
F +49 (0)8142 284 547
http://comms.e2vtechnologies.com
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## Stellar Satcom Amplifiers

<table>
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<th>Model</th>
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<th>Frequency (GHz)</th>
<th>Description</th>
<th>Size/Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6080 ODU</td>
<td></td>
<td></td>
<td>Battle override connector</td>
<td>19&quot; rack mountable units</td>
</tr>
<tr>
<td>N6081-01 Single ODU controller</td>
<td></td>
<td></td>
<td>1U</td>
<td></td>
</tr>
<tr>
<td>N6081D-01 Single ODU controller with Gain control</td>
<td></td>
<td></td>
<td>1U</td>
<td></td>
</tr>
<tr>
<td>N6143 Dual ODU controller with 1:1 switch control</td>
<td></td>
<td></td>
<td>1U</td>
<td></td>
</tr>
<tr>
<td>N6143C Ku</td>
<td>12.75 - 14.5</td>
<td></td>
<td>Dual ODU controller with 1:1 waveguide system</td>
<td>1U</td>
</tr>
<tr>
<td>N6145 Ku</td>
<td>12.75 - 14.5</td>
<td></td>
<td>Compact redundant combiner (CRCA) system</td>
<td>2U</td>
</tr>
</tbody>
</table>

Plus a range of fully weatherproof interconnecting cable assemblies for the ODU are available on request.

### Stellar Rack

<table>
<thead>
<tr>
<th>Model</th>
<th>Band</th>
<th>Frequency (GHz)</th>
<th>Power (W)</th>
<th>Size (mm)</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1400-200</td>
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<td></td>
<td>2,250</td>
<td>14U Rack</td>
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</tr>
</tbody>
</table>

### Remote Controller for 2 to 3kW amplifiers

Detailed datasheets for each of the above items are available on request or from our website www.e2vtechnologies.com

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### Availability

Most of these devices are available for dispatch at very short notice via our extensive distribution locations throughout the world.

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