



**Technical Datasheet:  
NovaTec S3 Versions and Cisco VG-2BRI-R**



<b>Mechanical Data</b>	
Width x Depth x Height	Desktop / wall-mounted chassis: 211 mm x 155 mm x 40 mm
Weight	1 to 2 kg (depending on version)
Fastening method	Wall-mounted chassis: wall holders
Construction	Several options
<b>Electrical Data</b>	
Power Supply	90 to 264 V~ ; 47 to 63 Hz
Power Input	Max. 1 A at 230 V~
Electrical Supply	Rubber connector (IEC 320)
Overvoltage Protection	Internal overvoltage protection
Available Interfaces (depending on version)	<ul style="list-style-type: none"> <li>• Serial via USB</li> <li>• 1 x Ethernet according IEEE 802.3/802.3u</li> <li>• ISDN BRI, EDSS1</li> <li>• ISDN U<sub>P0</sub>, EDSS1*</li> <li>• Analogue*</li> </ul>
BRI Interface	<ul style="list-style-type: none"> <li>• According CTR 3, TBR 3, ITAAB</li> <li>• Supply: external with USS (feeding unit)</li> <li>• Range: max. 220 m (passive bus) max. 900 m (extended passive bus) max. 1000 m (point-to-point)</li> </ul>
Analogue Interface*	<ul style="list-style-type: none"> <li>• Automatic identification between IWV and MFV (ETSI Standards ETSI ES 201 235-1,2 V1.1.1)</li> <li>• Range up to 10,000 m (depending on cable type)</li> <li>• High ringing voltage with up to 5 US REN (Ringer Equivalent Number) according AT&amp;T / 125 V Peak ringing voltage and protection from temperature rise</li> <li>• Adjustment of the line impedance for 15 countries (Austria, ..., Germany, ..., USA)</li> <li>• Caller ID after Bellcore/Telcordia GR-30-CORE <u>Bell202 FSK</u> CID Coding and ETSI 300-659-1/2/3 V1.3.1 <u>V.23 FSK</u> Coding for transmission of CID</li> <li>• Call charge pulse is 12/16 kHz configurable</li> <li>• Modem standards up to V.90</li> <li>• Fax standards up to V.34</li> <li>• Fax/Modem/Speech identification (Fax/Modem Switch)</li> </ul>
IP Interface	<ul style="list-style-type: none"> <li>• SIP 2.0 → RFC3261</li> <li>• ITU V.110 → Data interface between ISDN, IP</li> <li>• TLS and sRTP</li> </ul>
Clock Accuracy	<ul style="list-style-type: none"> <li>• Worst Case: +/- 30 ppm</li> <li>• Temp. Drift: +/- 30 ppm at -0°C to +70°C</li> <li>• Pull Range: +/- 100 ppm</li> <li>• Clock accuracy with RMCS option:</li> <li>• Long period (2 days) measurement: +/- 0.5 ppm (5 * 10<sup>-7</sup>)</li> <li>• Worst Case and guaranteed: +/- 5 ppm (5 * 10<sup>-6</sup>)</li> </ul>



<b>Electrical Data</b>	
Encryption	<ul style="list-style-type: none"><li>• SRTP according RFC3711 and RFC4711 (AES-CM-128 / HMAC-SHA1-32)</li><li>• TLS Version 1.0 according RFC2246 and RFC3268 Key Agreement: RSA and Diffie Hellmann Cipher Suite: AES, DES and 3DES Certificate: X509v3 Hash Functions: SHA and MD5</li></ul>
Codec and Speech Compression	<ul style="list-style-type: none"><li>• G.711 incl. Annex I (BFI) and Annex II (VAD/CNG)</li><li>• G.726 incl. VAD/CNG, BFI error concealment and payload support RTP according "RFC 3551"</li><li>• G.728, 16 kbit/s</li><li>• G.729 A/B, 8 kbit/s</li><li>• Fax Relay, T.38 support V.21, V.27ter, V.29 and V.17</li><li>• 10, 20 and 30 ms Voice Packet size (all Codecs, upstream) configurable</li><li>• Adaptive/ Fixed Jitter Buffer maximal 200 msec</li><li>• Jitter Buffer Inband Modem Support</li><li>• RTP/SRTP Protocol Support according to RFC3550 and RFC3711</li><li>• Payload Byte Counter (H248.1 Annex E)</li><li>• X-CCD &amp; Clear Mode for data transmission</li><li>• Silence Compression</li><li>• Comfort Noise Generation</li></ul>
Analogue Signalling	<ul style="list-style-type: none"><li>• The Near Line Echo Canceller (16 msec) is compatible with applicable ITU-T G.165 and G.168 standards.</li><li>• Caller ID Sender (CIDS), V.23 and Bel202</li><li>• Caller ID Receiver (CIDR), V.23 and Bel202</li><li>• DTMF/AT Generator</li><li>• DTMF Receiver (DTMFR) according to ITU-T Q.23.</li><li>• Universal Tone Generator (UTG)</li><li>• Universal Tone Detector (UTD) according to ITU-T V.8</li><li>• Text Phone V.18 A Detector</li><li>• Call Progress Tone Detector (CPTD)</li><li>• Answering Tone Detector (ATD)</li><li>• Digital Identification Signal (DIS) V.21 Detector</li><li>• DTMF Event Support according to RFC2833</li></ul>
<b>Environmental Specifications</b>	
Storage and Transport	-20° C to +90° C 0% to 95% relative humidity (not condensing)
Operation	+5° C to +40° C 0% to 95% relative humidity (not condensing)
Heat Loss	30 J
Max./Min. Temperature	0 to 40° C

\*Not available with TransNova® S3 (Cisco VG-2BRI-R)