

# TECHNICAL BRIEF

## Genius Modular Redundancy Approved Components List

The following components have been approved by TUV for use in Genius Modular Redundancy systems. The last Catalog Number suffix shown for each Component is the most currently-approved version. The previous Catalog Number suffixes shown correspond to earlier TUV certificates and approvals. The Latest Firmware Revision for a Component is listed beside the corresponding Catalog Number revision.

| Component  | Catalog Numbers   | Latest Firmware Revision |
|--|---|--------------------------|
| Series 90-70 PLC Rack, 9 Slot, Rear Mounted                | IC697CHS790D<br>IC697CHS790E<br>IC697CHS790F<br>IC697CHS790G<br>IC697CHS790H  | (1)<br><br><br><br>(2)   |
| Series 90-70 PLC Rack, 9 Slot, Front Mounted               | IC697CHS791G<br>IC697CHS791H  | (1)<br>(2)               |
| Series 90-70 PLC Rack, 5 Slot, Rear Mounted                | IC697CHS750E<br>IC697CHS750F  | (1)<br>(2)               |
| Series 90-70 PLC Duplex Integrator Rack (BRE), Rear Mount  | IC697CHS770C<br>IC697CHS770D  | (1)<br>(2)               |
| Series 90-70 PLC Duplex Integrator Rack (BRE), Front Mount | IC697CHS771C<br>IC697CHS771D  | (1)<br>(2)               |
| Series 90-70 Power Supply Module, 120/240Vac, 100 Watts    | IC697PWR711CX<br>IC697PWR711G<br>IC697PWR711H<br>IC697PWR711J<br>IC697PWR711K | (1)<br><br><br><br>(2)   |
| Series 90-70 Power Supply Module, 24/48Vdc, 90 Watts       | IC697PWR724D<br>IC697PWR724E<br>IC697PWR724F                                  | (1)<br><br>(2)           |
| Series 90-70 PLC CPU                                       | IC697CPU788-DA<br>IC697CPU788-EA<br>IC697CPU788-FA<br>IC697CPU788-GA          | 5.01 (2)                 |
| Series 90-70 PLC CPU                                       | IC697CPU789-DA<br>IC697CPU789-EA<br>IC697CPU789-FA<br>IC697CPU789-GA          | 5.01 (2)                 |
| Series 90-70 CPU Memory Expansion                          | IC697MEM735D<br>IC697MEM735E<br>IC697MEM735F<br>IC697MEM735G                  | (2)                      |
| Series 90-70 PLC CPU                                       | IC697CPM790-BB<br>IC697CPM790-CB<br>IC697CPM790-CC<br>IC697CPM790-DC          | 6.03 (2)                 |
| Series 90-70 Bus Expansion Receiver Module                 | IC697BEM711J<br>IC697BEM711K<br>IC697BEM711L<br>IC697BEM711M<br>IC697BEM711N  | (1)<br><br><br><br>(2)   |

| Component   | Catalog Numbers  | Latest Firmware Revision |
|---|--|--------------------------|
| Series 90-70 Bus Expansion Transmitter Module   | IC697BEM713F<br>IC697BEM713G<br>IC697BEM713H<br>IC697BEM713J   | (1)<br><br><br>(2)       |
| Series 90-70 Genius Bus Controller Module   | IC697BEM731N<br>IC697BEM731P<br>IC697BEM731R<br>IC697BEM731S<br>IC697BEM731T<br>IC697BEM731U<br>IC697BEM731V<br>IC697BEM731W<br>IC697BEM731X | 5.6/4.8 (2)              |
| Genius 16 PT DC Source Block<br>(IC660BBD020 consists of<br>IC660EBD020M or later and<br>IC660TSD020K or later)               | IC660BBD020M<br>IC660BBD020N<br>IC660BBD020P<br>IC660BBD020R<br>IC660BBD020S<br>IC660BBD020T<br>IC660BBD020U<br>IC660BBD020V                 | 4.3 (2)                  |
| Genius 16 PT DC Source Block<br>(IC660BRD020 consists of<br>IC660ERD020A or later and<br>IC660TRD020A or later)               | IC660BRD020A<br>IC660BRD020B<br>IC660BRD020D   | 4.3 (2)                  |
| Genius 16 PT DC Sink Block<br>(IC660BBD021 consists of<br>IC660EBD021M or later and<br>IC660TSD021K or later)                 | IC660BBD021M<br>IC660BBD021N<br>IC660BBD021P<br>IC660BBD021R<br>IC660BBD021S<br>IC660BBD021T<br>IC660BBD021U<br>IC660BBD021V                 | 4.3 (2)                  |
| Genius 32 PT DC Source Block (24V version)<br>(IC660BBD024 consists of<br>IC660EBD024N or later and<br>IC660TBD024K or later) | IC660BBD024N<br>IC660BBD024P<br>IC660BBD024R<br>IC660BBD024S<br>IC660BBD024T<br>IC660BBD024U<br>IC660BBD024V<br>IC660BBD024W                 | 4.2 (2)                  |
| Genius 32 PT DC Source Block (24V version)<br>(IC660BRD024 consists of<br>IC660ERD024A or later and<br>IC660TBD024K or later) | IC660BRD024A<br>IC660BRD024B   | 4.2 (2)                  |
| Genius 32 PT DC Sink Block<br>(IC660BBD025 consists of<br>IC660EBD025N or later and<br>IC660TBD025K or later)                 | IC660BBD025N<br>IC660BBD025P<br>IC660BBD025R<br>IC660BBD025S<br>IC660BBD025T<br>IC660BBD025U<br>IC660BBD025V                                 | 4.2 (2)                  |
| Genius 32 PT DC Source Block (24V version)<br>(IC660BRD025 consists of<br>IC660ERD025A or later and<br>IC660TBD025K or later) | IC660BRD025A<br>IC660BRD025B   | 4.2 (2)                  |

| Component  | Catalog Numbers   | Latest Firmware Revision |
|--|---|--------------------------|
| Genius 31 PT DC Source Block (48V version)<br>(IC660BBD040 consists of<br>IC660EBD0040A or later and<br>IC660TBD040A or later) | IC660BBD040A  | 4.2                      |
| Genius RTD Block<br>(IC660BBA021 consists of<br>IC660EBA021K or later and<br>IC660TBA021K or later)                            | IC660BBA021K<br>IC660BBA021L<br>IC660BBA021M<br>IC660BBA021N                                      | 1.1                      |
| Genius Thermocouple Block<br>(IC660BBA023 consists of<br>IC660EBA023K or later and<br>IC660TBA023K or later)                   | IC660BBA023K<br>IC660BBA023L<br>IC660BBA023M<br>IC660BBA023N<br>IC660BBA023PCA1<br>IC660BBA023RCC | 1.4                      |
| Genius Current-source Analog Block<br>(IC660BBA024 consists of<br>IC660EBA024K or later and<br>IC660TBA024K or later)          | IC660BBA024K<br>IC660BBA024L<br>IC660BBA024M<br>IC660BBA024N                                      | 1.8                      |
| Genius DC Current-source Analog Block<br>(IC660BBA026 consists of<br>IC660EBA026K or later and<br>IC660TBA026K or later)       | IC660BBA026K<br>IC660BBA026L<br>IC660BBA026M<br>IC660BBA026N                                      | 1.2                      |
| Genius AC Current-source Analog Block<br>(IC660BBA106 consists of<br>IC660EBA106K or later and<br>IC660TBA106K or later)       | IC660BBA106K<br>IC660BBA106L<br>IC660BBA106M<br>IC660BBA106N                                      | 1.2                      |
| Silvertech Termination Board, discrete inputs, source, 16 pt   | GBC1-SC-DI16  | (1)                      |
| Silvertech Termination Board, discrete inputs, source, 32 pt   | GBC1-SC-DI32  | (1)                      |
| Silvertech Termination Board, discrete outputs, source or sink, 16 pts   | GBC1-CK-DO16  | (1)                      |
| Silvertech Termination Board, discrete outputs, sink, 32 pts   | GBC1-SK-DO32  | (1)                      |
| Silvertech Termination Board, discrete outputs, source, 32 pts   | GBC1-SC-DO32  | (1)                      |
| Silvertech Termination Board, analog inputs, 6 pts   | GBC1-CK-AI6   | (1)                      |
| Silvertech Interface Module, discrete inputs, source, 16 pts   | IMC3-SC-DI16  | (1)                      |
| Silvertech Interface Module, discrete inputs, source, 32 pts   | IMC3-SC-DI32  | (1)                      |
| Silvertech Interface Module, discrete outputs, 16 pts  | IMC4-CK-DO16  | (1)                      |
| Silvertech Interface Module, discrete outputs, 32 pts  | IMC4-CK-DO32  | (1)                      |
| Silvertech Interface Module, analog inputs, 6 pts  | IMC3-CK-AI6   | (1)                      |
| Logicmaster 90-70 Software, WSI  | IC641SWP701R<br>IC641SWP701S<br>IC641SWP701T<br>IC641SWP701U                                      | 7.02                     |
| Logicmaster 90-70 Software, Serial   | IC641SWP706H<br>IC641SWP706J<br>IC641SWP706L<br>IC641SWP706M                                      | 7.02                     |
| Logicmaster 90-70 Software, TCP/IP with NT/95 Drivers  | IC641SWP716C<br>IC641SWP716D  | 7.05                     |
| Genius Phase III Modular Redundancy Configuration Software   | IC641SWP715E  | 7.01                     |
| Genius Phase III Modular Redundancy Application Software   |   | 3.10                     |

| Component                               | Catalog Numbers        | Latest Firmware Revision |
|---|------------------------|--------------------------|
| GMR Phase IV Configuration Software     | IC641SWP745A           | 8.05A/4.02C              |
| GMR Phase IV Application Software       | IC641SWP745B           | 8.06/4.04                |
| Genius Modular Redundancy User's Manual | GFK-1277C<br>GFK-1277D | (1)                      |

Many of the above components may be purchased in a conformed coat version. The conformed coat versions of the components are approved by TUV for use in Genius Modular Redundancy systems. The conformed coat catalog number is identified by placing the letters "CA" in front of the revision of the component. For instance, IC660BBA020CAP is the conformed coat version of IC660BBA020P.

- (1): Product does not contain firmware
- (2): Product version has changed due to ATEX labeling on product case.

Note: ATEX approval was not scope of the TÜV certification.

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