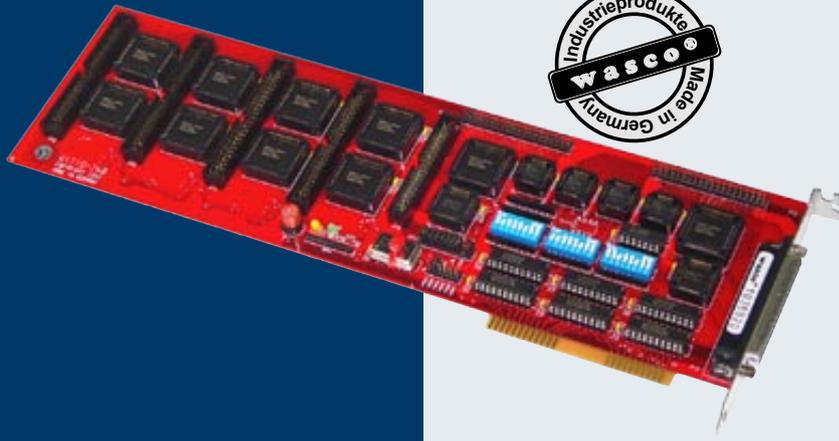


WITIO-240EXTENDED

Interruptfähige, digitale ISA I/O-Karte mit 240 TTL-Ein/Ausgängen, Interruptcontroller, Timer und Quarzzeitbasis



Die **WITIO-240EXTENDED** bietet 240 digitale Ein/Ausgangskanäle, die TTL-kompatibel sind. Diese Karte eignet sich für Ein- und Ausgabeanwendungen, für die keine galvanische Trennungen notwendig sind. Die 30 Ein-/Ausgabeports sind in Gruppen zu je acht Kanälen, jeder dritte Port ist zudem auch in zwei Gruppen zu je vier Kanälen als Ein- oder Ausgänge programmierbar. Zusätzlich zu den normalen TTL-Ein/Ausgangskanälen sind acht programmierbare Interrupteingänge, die über einen Interruptcontroller kontrolliert werden, verfügbar. Zeitabhängige Interruptauslösungen sind durch einen Zählerbaustein, kombiniert mit einem Quarzoszillator, realisierbar. Eine 37polige D-Sub-Buchse am Slotblech der Platine, ein 40poliger und vier 50polige Pfostenstecker auf der Platine ermöglichen den Anschluss der Peripherie. Über ein optional erhältliches Steckerverlegungs-Set ist die Verlegung des 40poligen Pfostensteckers auf eine 37polige D-Sub-Buchse mit Slotblech möglich.



240 TTL-Ein/Ausgänge

8 Interrupteingänge

3 * 16 Bit Timer/Zähler

Quarzzeitbasis

Interruptfähig

TECHNISCHE DATEN

Digitale Ein/Ausgänge TTL

Bausteine: 10 * 8255 oder 71055
 Kanäle: 240, TTL-kompatibel
 Jeder Baustein ist organisiert in Port A, Port B und Port C
 Port A und B sind in 8-Bit-Gruppen, Port C ist in einer 8-Bit-Gruppe oder in zwei 4-Bit-Gruppen als Ein- oder Ausgänge programmierbar

Interruptcontroller

Baustein: 8259A oder 71059
 8 programmierbare Kanäle
 Übergabe der Interrupts auf IRQ2 bis IRQ7 des Rechners mit Jumper wählbar

Timer

Baustein: 8254 oder 71054
 3 * 16 Bit Abwärtszähler
 Zählfrequenz: max. 8 MHz
 Zeitabhängige Interruptauslösungen
 Takt intern vom Quarzoszillator oder extern über Jumper wählbar

Quarzoszillator

4 MHz

Anschlusstecker

1 * 37polige D-Sub-Buchse
 1 * 40poliger Pfostenstecker
 4 * 50poliger Pfostenstecker
 2 * 40polige Pfostenstecker (Kompatibilitätsstecker zur PC-8255)

Stromverbrauch

+5 V typ. 400 mA

Abmessungen

340 mm x 100 mm (l x h)
 4lagige Multilayer-Platine

Sonstige technische Daten

Sicherung für Spannungsversorgung
 LED zur Spannungskontrolle
 Alle IC-Fassungen mit vergoldeten Kontakten

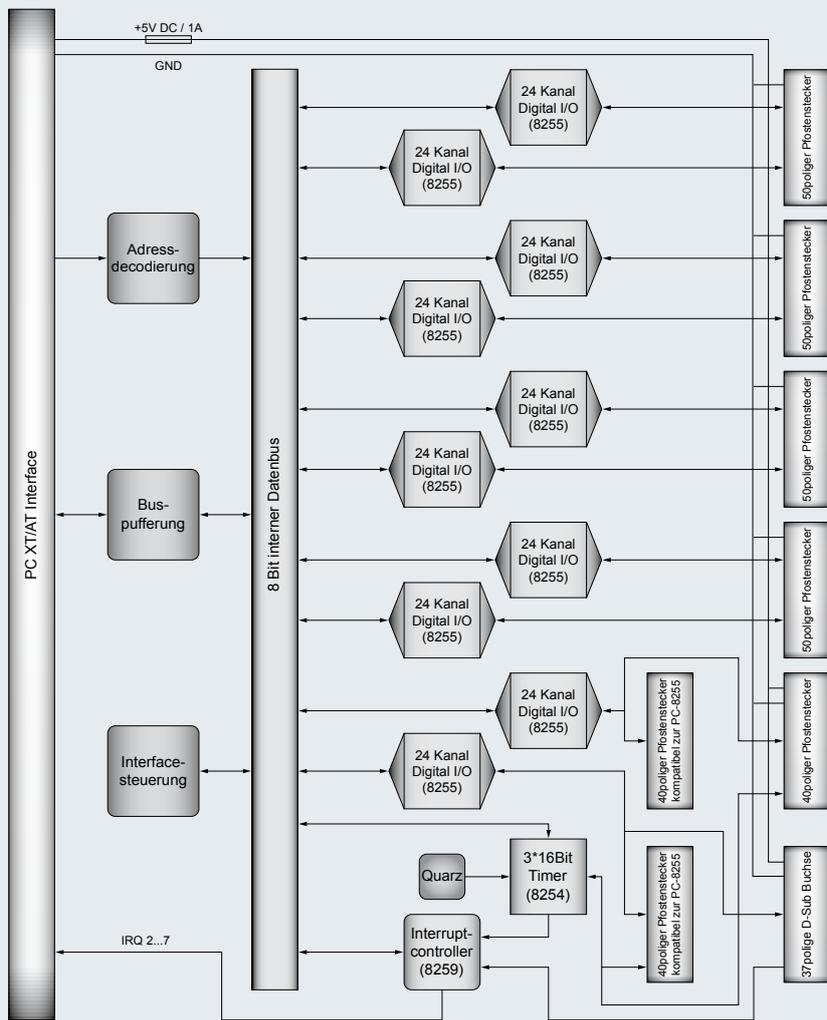
Adressbelegung

Drei Blöcke mit je 16 Adressen werden im Portbereich belegt. Per Dip-Schalter sind beliebige Adressbereiche einstellbar.

APPLIKATIONEN

Ein-/Ausschaltvorgänge
 Erkennung von Kontaktzuständen
 Binärdatenerfassung
 Prozesssteuerung
 Datenerfassung von BCD-codierten Instrumenten

BLOCKSCHALTBIELD



STECKERBELEGUNG

Die digitalen Ein/Ausgänge sind der 37poligen D-Sub-Buchse P2, dem 40poligen Pfostenstecker P5, den 50poligen Pfostensteckern P6, P7, P8 und P9 sowie zusätzlich den 40poligen Pfostensteckern P3 und P4 zugeführt. Die Interruptanschlüsse liegen an P2, die Timersignale an P5 an. Die Belegungen von P3 und P4 sind kompatibel zu CN1 und CN2 der PC-8255.

| D-Sub-Buchse P2 | Pfostenstecker P5 | Pfostenstecker P6 | Pfostenstecker P7 | Pfostenstecker P8 | Pfostenstecker P9 |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 1PA0 | 1PA1 | 2PA1 | 3PA1 | 5PA1 | 7PA1 |
| 2PA0 | 2PA2 | 3PA2 | 3PA3 | 5PA2 | 7PA2 |
| 3PA0 | 3PA4 | 4PA1 | 5PA4 | 7PA4 | 9PA4 |
| 4PA0 | 4PA6 | 5PA6 | 6PA6 | 8PA6 | 10PA6 |
| 5PA0 | 5PA7 | 6PA7 | 7PA7 | 9PA7 | 11PA7 |
| 6PA0 | 6PA8 | 7PA8 | 8PA8 | 10PA8 | 12PA8 |
| 7PA0 | 7PA9 | 8PA9 | 9PA9 | 11PA9 | 13PA9 |
| 8PA0 | 8PA10 | 9PA10 | 10PA10 | 12PA10 | 14PA10 |
| 9PA0 | 9PA11 | 10PA11 | 11PA11 | 13PA11 | 15PA11 |
| 10PA0 | 10PA12 | 11PA12 | 12PA12 | 14PA12 | 16PA12 |
| 11PA0 | 11PA13 | 12PA13 | 13PA13 | 15PA13 | 17PA13 |
| 12PA0 | 12PA14 | 13PA14 | 14PA14 | 16PA14 | 18PA14 |
| 13PA0 | 13PA15 | 14PA15 | 15PA15 | 17PA15 | 19PA15 |
| 14PA0 | 14PA16 | 15PA16 | 16PA16 | 18PA16 | 20PA16 |
| 15PA0 | 15PA17 | 16PA17 | 17PA17 | 19PA17 | 21PA17 |
| 16PA0 | 16PA18 | 17PA18 | 18PA18 | 20PA18 | 22PA18 |
| 17PA0 | 17PA19 | 18PA19 | 19PA19 | 21PA19 | 23PA19 |
| 18PA0 | 18PA20 | 19PA20 | 20PA20 | 22PA20 | 24PA20 |
| 19PA0 | 19PA21 | 20PA21 | 21PA21 | 23PA21 | 25PA21 |
| 20PA0 | 20PA22 | 21PA22 | 22PA22 | 24PA22 | 26PA22 |
| 21PA0 | 21PA23 | 22PA23 | 23PA23 | 25PA23 | 27PA23 |
| 22PA0 | 22PA24 | 23PA24 | 24PA24 | 26PA24 | 28PA24 |
| 23PA0 | 23PA25 | 24PA25 | 25PA25 | 27PA25 | 29PA25 |
| 24PA0 | 24PA26 | 25PA26 | 26PA26 | 28PA26 | 30PA26 |
| 25PA0 | 25PA27 | 26PA27 | 27PA27 | 29PA27 | 31PA27 |
| 26PA0 | 26PA28 | 27PA28 | 28PA28 | 30PA28 | 32PA28 |
| 27PA0 | 27PA29 | 28PA29 | 29PA29 | 31PA29 | 33PA29 |
| 28PA0 | 28PA30 | 29PA30 | 30PA30 | 32PA30 | 34PA30 |
| 29PA0 | 29PA31 | 30PA31 | 31PA31 | 33PA31 | 35PA31 |
| 30PA0 | 30PA32 | 31PA32 | 32PA32 | 34PA32 | 36PA32 |
| 31PA0 | 31PA33 | 32PA33 | 33PA33 | 35PA33 | 37PA33 |
| 32PA0 | 32PA34 | 33PA34 | 34PA34 | 36PA34 | |
| 33PA0 | 33PA35 | 34PA35 | 35PA35 | 37PA35 | |
| 34PA0 | 34PA36 | 35PA36 | 36PA36 | | |
| 35PA0 | 35PA37 | 36PA37 | 37PA37 | | |
| 36PA0 | | | | | |
| 37PA0 | | | | | |
| 1PB0 | 1PB1 | 2PB1 | 3PB1 | 5PB1 | 7PB1 |
| 2PB0 | 2PB2 | 3PB2 | 3PB3 | 5PB2 | 7PB2 |
| 3PB0 | 3PB3 | 4PB3 | 5PB3 | 7PB3 | 9PB3 |
| 4PB0 | 4PB4 | 5PB4 | 6PB4 | 8PB4 | 10PB4 |
| 5PB0 | 5PB5 | 6PB5 | 7PB5 | 9PB5 | 11PB5 |
| 6PB0 | 6PB6 | 7PB6 | 8PB6 | 10PB6 | 12PB6 |
| 7PB0 | 7PB7 | 8PB7 | 9PB7 | 11PB7 | 13PB7 |
| 8PB0 | 8PB8 | 9PB8 | 10PB8 | 12PB8 | 14PB8 |
| 9PB0 | 9PB9 | 10PB9 | 11PB9 | 13PB9 | 15PB9 |
| 10PB0 | 10PB10 | 11PB10 | 12PB10 | 14PB10 | 16PB10 |
| 11PB0 | 11PB11 | 12PB11 | 13PB11 | 15PB11 | 17PB11 |
| 12PB0 | 12PB12 | 13PB12 | 14PB12 | 16PB12 | 18PB12 |
| 13PB0 | 13PB13 | 14PB13 | 15PB13 | 17PB13 | 19PB13 |
| 14PB0 | 14PB14 | 15PB14 | 16PB14 | 18PB14 | 20PB14 |
| 15PB0 | 15PB15 | 16PB15 | 17PB15 | 19PB15 | 21PB15 |
| 16PB0 | 16PB16 | 17PB16 | 18PB16 | 20PB16 | 22PB16 |
| 17PB0 | 17PB17 | 18PB17 | 19PB17 | 21PB17 | 23PB17 |
| 18PB0 | 18PB18 | 19PB18 | 20PB18 | 22PB18 | 24PB18 |
| 19PB0 | 19PB19 | 20PB19 | 21PB19 | 23PB19 | 25PB19 |
| 20PB0 | 20PB20 | 21PB20 | 22PB20 | 24PB20 | 26PB20 |
| 21PB0 | 21PB21 | 22PB21 | 23PB21 | 25PB21 | 27PB21 |
| 22PB0 | 22PB22 | 23PB22 | 24PB22 | 26PB22 | 28PB22 |
| 23PB0 | 23PB23 | 24PB23 | 25PB23 | 27PB23 | 29PB23 |
| 24PB0 | 24PB24 | 25PB24 | 26PB24 | 28PB24 | 30PB24 |
| 25PB0 | 25PB25 | 26PB25 | 27PB25 | 29PB25 | 31PB25 |
| 26PB0 | 26PB26 | 27PB26 | 28PB26 | 30PB26 | 32PB26 |
| 27PB0 | 27PB27 | 28PB27 | 29PB27 | 31PB27 | 33PB27 |
| 28PB0 | 28PB28 | 29PB28 | 30PB28 | 32PB28 | 34PB28 |
| 29PB0 | 29PB29 | 30PB29 | 31PB29 | 33PB29 | 35PB29 |
| 30PB0 | 30PB30 | 31PB30 | 32PB30 | 34PB30 | 36PB30 |
| 31PB0 | 31PB31 | 32PB31 | 33PB31 | 35PB31 | 37PB31 |
| 32PB0 | 32PB32 | 33PB32 | 34PB32 | 36PB32 | |
| 33PB0 | 33PB33 | 34PB33 | 35PB33 | 37PB33 | |
| 34PB0 | 34PB34 | 35PB34 | 36PB34 | | |
| 35PB0 | 35PB35 | 36PB35 | 37PB35 | | |
| 36PB0 | 36PB36 | 37PB36 | | | |
| 37PB0 | 37PB37 | | | | |
| 1PC0 | 1PC1 | 2PC1 | 3PC1 | 5PC1 | 7PC1 |
| 2PC0 | 2PC2 | 3PC2 | 3PC3 | 5PC2 | 7PC2 |
| 3PC0 | 3PC3 | 4PC3 | 5PC3 | 7PC3 | 9PC3 |
| 4PC0 | 4PC4 | 5PC4 | 6PC4 | 8PC4 | 10PC4 |
| 5PC0 | 5PC5 | 6PC5 | 7PC5 | 9PC5 | 11PC5 |
| 6PC0 | 6PC6 | 7PC6 | 8PC6 | 10PC6 | 12PC6 |
| 7PC0 | 7PC7 | 8PC7 | 9PC7 | 11PC7 | 13PC7 |
| 8PC0 | 8PC8 | 9PC8 | 10PC8 | 12PC8 | 14PC8 |
| 9PC0 | 9PC9 | 10PC9 | 11PC9 | 13PC9 | 15PC9 |
| 10PC0 | 10PC10 | 11PC10 | 12PC10 | 14PC10 | 16PC10 |
| 11PC0 | 11PC11 | 12PC11 | 13PC11 | 15PC11 | 17PC11 |
| 12PC0 | 12PC12 | 13PC12 | 14PC12 | 16PC12 | 18PC12 |
| 13PC0 | 13PC13 | 14PC13 | 15PC13 | 17PC13 | 19PC13 |
| 14PC0 | 14PC14 | 15PC14 | 16PC14 | 18PC14 | 20PC14 |
| 15PC0 | 15PC15 | 16PC15 | 17PC15 | 19PC15 | 21PC15 |
| 16PC0 | 16PC16 | 17PC16 | 18PC16 | 20PC16 | 22PC16 |
| 17PC0 | 17PC17 | 18PC17 | 19PC17 | 21PC17 | 23PC17 |
| 18PC0 | 18PC18 | 19PC18 | 20PC18 | 22PC18 | 24PC18 |
| 19PC0 | 19PC19 | 20PC19 | 21PC19 | 23PC19 | 25PC19 |
| 20PC0 | 20PC20 | 21PC20 | 22PC20 | 24PC20 | 26PC20 |
| 21PC0 | 21PC21 | 22PC21 | 23PC21 | 25PC21 | 27PC21 |
| 22PC0 | 22PC22 | 23PC22 | 24PC22 | 26PC22 | 28PC22 |
| 23PC0 | 23PC23 | 24PC23 | 25PC23 | 27PC23 | 29PC23 |
| 24PC0 | 24PC24 | 25PC24 | 26PC24 | 28PC24 | 30PC24 |
| 25PC0 | 25PC25 | 26PC25 | 27PC25 | 29PC25 | 31PC25 |
| 26PC0 | 26PC26 | 27PC26 | 28PC26 | 30PC26 | 32PC26 |
| 27PC0 | 27PC27 | 28PC27 | 29PC27 | 31PC27 | 33PC27 |
| 28PC0 | 28PC28 | 29PC28 | 30PC28 | 32PC28 | 34PC28 |
| 29PC0 | 29PC29 | 30PC29 | 31PC29 | 33PC29 | 35PC29 |
| 30PC0 | 30PC30 | 31PC30 | 32PC30 | 34PC30 | 36PC30 |
| 31PC0 | 31PC31 | 32PC31 | 33PC31 | 35PC31 | 37PC31 |
| 32PC0 | 32PC32 | 33PC32 | 34PC32 | 36PC32 | |
| 33PC0 | 33PC33 | 34PC33 | 35PC33 | 37PC33 | |
| 34PC0 | 34PC34 | 35PC34 | 36PC34 | | |
| 35PC0 | 35PC35 | 36PC35 | 37PC35 | | |
| 36PC0 | 36PC36 | 37PC36 | | | |
| 37PC0 | 37PC37 | | | | |
| 1P2 | 1P3 | 2P3 | 3P3 | 5P3 | 7P3 |
| 2P2 | 2P4 | 3P4 | 3P5 | 5P4 | 7P4 |
| 3P2 | 3P5 | 4P5 | 5P5 | 7P5 | 9P5 |
| 4P2 | 4P6 | 5P6 | 6P6 | 8P6 | 10P6 |
| 5P2 | 5P7 | 6P7 | 7P7 | 9P7 | 11P7 |
| 6P2 | 6P8 | 7P8 | 8P8 | 10P8 | 12P8 |
| 7P2 | 7P9 | 8P9 | 9P9 | 11P9 | 13P9 |
| 8P2 | 8P10 | 9P10 | 10P10 | 12P10 | 14P10 |
| 9P2 | 9P11 | 10P11 | 11P11 | 13P11 | 15P11 |
| 10P2 | 10P12 | 11P12 | 12P12 | 14P12 | 16P12 |
| 11P2 | 11P13 | 12P13 | 13P13 | 15P13 | 17P13 |
| 12P2 | 12P14 | 13P14 | 14P14 | 16P14 | 18P14 |
| 13P2 | 13P15 | 14P15 | 15P15 | 17P15 | 19P15 |
| 14P2 | 14P16 | 15P16 | 16P16 | 18P16 | 20P16 |
| 15P2 | 15P17 | 16P17 | 17P17 | 19P17 | 21P17 |
| 16P2 | 16P18 | 17P18 | 18P18 | 20P18 | 22P18 |
| 17P2 | 17P19 | 18P19 | 19P19 | 21P19 | 23P19 |
| 18P2 | 18P20 | 19P20 | 20P20 | 22P20 | 24P20 |
| 19P2 | 19P21 | 20P21 | 21P21 | 23P21 | 25P21 |
| 20P2 | 20P22 | 21P22 | 22P22 | 24P22 | 26P22 |
| 21P2 | 21P23 | 22P23 | 23P23 | 25P23 | 27P23 |
| 22P2 | 22P24 | 23P24 | 24P24 | 26P24 | 28P24 |
| 23P2 | 23P25 | 24P25 | 25P25 | 27P25 | 29P25 |
| 24P2 | 24P26 | 25P26 | 26P26 | 28P26 | 30P26 |
| 25P2 | 25P27 | 26P27 | 27P27 | 29P27 | 31P27 |
| 26P2 | 26P28 | 27P28 | 28P28 | 30P28 | 32P28 |
| 27P2 | 27P29 | 28P29 | 29P29 | 31P29 | 33P29 |
| 28P2 | 28P30 | 29P30 | 30P30 | 32P30 | 34P30 |
| 29P2 | 29P31 | 30P31 | 31P31 | 33P31 | 35P31 |
| 30P2 | 30P32 | 31P32 | 32P32 | 34P32 | 36P32 |
| 31P2 | 31P33 | 32P33 | 33P33 | 35P33 | 37P33 |
| 32P2 | 32P34 | 33P34 | 34P34 | 36P34 | |
| 33P2 | 33P35 | 34P35 | 35P35 | 37P35 | |
| 34P2 | 34P36 | 35P36 | 36P36 | | |
| 35P2 | 35P37 | 36P37 | 37P37 | | |
| 36P2 | | | | | |
| 37P2 | | | | | |
| 1P3 | 1P4 | 2P4 | 3P4 | 5P4 | 7P4 |
| 2P3 | 2P5 | 3P5 | 3P6 | 5P5 | 7P5 |
| 3P3 | 3P6 | 4P6 | 5P6 | 7P6 | 9P6 |
| 4P3 | 4P7 | 5P7 | 6P7 | 8P7 | 10P7 |
| 5P3 | 5P8 | 6P8 | 7P8 | 9P8 | 11P8 |
| 6P3 | 6P9 | 7P9 | 8P9 | 10P9 | 12P9 |
| 7P3 | 7P10 | 8P10 | 9P10 | 11P10 | 13P10 |
| 8P3 | 8P11 | 9P11 | 10P11 | 12P11 | 14P11 |
| 9P3 | 9P12 | 10P12 | 11P12 | 13P12 | 15P12 |
| 10P3 | 10P13 | 11P13 | 12P13 | 14P13 | 16P13 |
| 11P3 | 11P14 | 12P14 | 13P14 | 15P14 | 17P14 |
| 12P3 | 12P15 | 13P15 | 14P15 | 16P15 | 18P15 |
| 13P3 | 13P16 | 14P16 | 15P16 | 17P16 | 19P16 |
| 14P3 | 14P17 | 15P17 | 16P17 | 18P17 | 20P17 |
| 15P3 | 15P18 | 16P18 | 17P18 | 19P18 | 21P18 |
| 16P3 | 16P19 | 17P19 | 18P19 | 20P19 | 22P19 |
| 17P3 | 17P20 | 18P20 | 19P20 | 21P20 | 23P20 |
| 18P3 | 18P21 | 19P21 | 20P21 | 22P21 | 24P21 |
| 19P3 | 19P22 | 20P22 | 21P22 | 23P22 | 25P22 |
| 20P3 | 20P23 | 21P23 | 22P23 | 24P23 | 26P23 |
| 21P3 | 21P24 | 22P24 | 23P24 | 25P24 | 27P24 |
| 22P3 | 22P25 | 23P25 | 24P25 | 26P25 | 28P25 |
| 23P3 | 23P26 | 24P26 | 25P26 | 27P26 | 29P26 |
| 24P3 | 24P27 | 25P27 | 26P27 | 28P27 | 30P27 |
| 25P3 | 25P28 | 26P28 | 27P28 | 29P28 | 31P28 |
| 26P3 | 26P29 | 27P29 | 28P29 | 30P29 | 32P29 |
| 2 | | | | | |